

# **Multipurpose Project Budget (With Library Project Budget)** *(Multipurpose Projects Only)*

*If there are no costs in any line item below for the project, specify by putting a zero "0" in the blank space provided.*

Line Items:	A Library <sup>1</sup> Dedicated Eligible	B Library Portion of Common Eligible	C Library Total Eligible	D Library Total Ineligible	E Other <sup>2</sup> Total Ineligible
1. New Construction	\$ 18,073,945	\$ 1,144,283	\$ 19,218,028	\$ 2,027,966	\$ 1,468,395
2. Remodeling Construction	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
3. Contingency	\$ 1,809,461	\$ 114,539	\$ 1,924,000	\$ 0	\$ 0
4. Appraised Value of Building	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
5. Appraised Value of Land	\$ 0	\$ 0	\$ 0	\$ 1,810,900	\$ 179,100
6. Site Development	\$ 1,465,106	\$ 92,741	\$ 1,557,847	\$ 0	\$ 165,463
7. Site Demolition	\$ 210,023	\$ 13,294	\$ 223,317	\$ 0	\$ 0
8. Site Permits & Fees	\$ 0	\$ 0	\$ 0	\$ 477,750	\$ 47,250
9. Site Option Agreement	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
10. Furnishings & Equipment Costs	\$ 0	\$ 0	\$ 0	\$ 2,749,500	\$ 305,500
11. Signage	\$ 0	\$ 0	\$ 0	\$ 141,000	\$ 9,000
12. Architectural & Engineering Fees	\$ 0	\$ 0	\$ 0	\$ 2,025,000	\$ 225,000
13. Construction Cost Estimator Fees	\$ 0	\$ 0	\$ 0	\$ 85,000	\$ 0
14. Interior Designer Fees	\$ 0	\$ 0	\$ 0	\$ 247,500	\$ 27,500
15. Geotechnical/Geohazard Reports	\$ 0	\$ 0	\$ 0	\$ 25,000	\$ 0
16. Hazardous Materials Consultant Fees	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
17. Energy Audit, Structural, ADA, & Engineering Feasibility Studies	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
18. Library Consultant Fees	\$ 0	\$ 0	\$ 0	\$ 175,000	\$ 0
19. Construction/Project Management	\$ 0	\$ 0	\$ 0	\$ 225,000	\$ 0
20. Other Professional Fees	\$ 0	\$ 0	\$ 0	\$ 47,200	\$ 0
21. Local Project Administration Costs	\$ 0	\$ 0	\$ 0	\$ 339,208	\$ 0
22. Works of Art	\$ 0	\$ 0	\$ 0	\$ 25,000	\$ 0
23. Relocation Costs & Moving Costs	\$ 0	\$ 0	\$ 0	\$ 25,000	\$ 0
24. Acquisition of Library Materials	\$ 0	\$ 0	\$ 0	\$ 400,000	\$ 0
25. Other (Specify):	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
26. Total Project Costs:	\$ 21,558,535	\$ 1,364,857	\$ 22,923,192	\$ 10,826,024	\$ 2,427,208

<sup>1</sup> Library means that portion of the project that provides space for the delivery and support of public library direct services, including joint use school library services (co-location or joint venture).

<sup>2</sup> "Other" uses means any other space that does not provide for the delivery and support of public library direct services.

# Quantity and Cost of Meeting Rooms

## PUBLIC/STAFF TYPE OF

Furniture && Equipment

QTY	COST	Extended COST	<u>QTY</u>	<u>COST</u>
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## PUBLIC

**594      \$250,156**

AV & Storage Room	6	\$0	\$0
Chair, (Auditorium Reserved Space For Wheelchair)	6	\$1	\$6
Chair, Auditorium	330	\$400	\$132,000
Chair, Auditorium (Removable)	6	\$400	\$2,400
Chair, Café	18	\$200	\$3,600
Chair, Child's Stacking	75	\$100	\$7,500
Chair, Conference Room	72	\$600	\$43,200
Chair, Group Study	50	\$400	\$20,000
Chair, Instructor	2	\$600	\$1,200
Lectern (w/ Space For A Portable Computer)	3	\$2,500	\$7,500
Stage	1	\$0	\$0
Stage, Portable	1	\$9,500	\$9,500
Table, Café	2	\$350	\$700
Table, Conference	10	\$1,000	\$10,000
Table, Conference	1	\$2,500	\$2,500
Table, Group Study	1	\$900	\$900
Table, Group Study	1	\$1,500	\$1,500
Table, Meeting Room	7	\$450	\$3,150
Workstation, Group Study Counter	2	\$2,250	\$4,500

## STAFF

**16      \$9,600**

Chair, Conference Room	16	\$600	\$9,600
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# Quantity and Cost of Reader's Seats

## PUBLIC/STAFF TYPE OF

Furniture & Equipment

QTY	COST	Extended COST	<u>QTY</u>	<u>COST</u>
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## COMBINED

8      \$6,700

Chair, Lounge	4	\$1,200	\$4,800	
Chair, Task	2	\$350	\$700	
Table, End	2	\$600	\$1,200	

## PUBLIC

475      \$334,250

Carrel, Reader's Wood	15	\$1,900	\$28,500	
Carrel, Tutoring Wood	2	\$2,500	\$5,000	
Chair, Child	9	\$200	\$1,800	
Chair, Child's	50	\$200	\$10,000	
Chair, Child's Lounge	6	\$700	\$4,200	
Chair, Juvenile	70	\$200	\$14,000	
Chair, Juvenile Lounge	6	\$700	\$4,200	
Chair, Lounge	128	\$1,200	\$153,600	
Chair, Reader's	69	\$400	\$27,600	
Chair, Rocking	1	\$500	\$500	
Chair, Task	14	\$350	\$4,900	
Chair, Visitor's	4	\$500	\$2,000	
Stool, Child's	7	\$0	\$0	
Table, Café	7	\$300	\$2,100	
Table, Children's Play	1	\$0	\$0	
Table, Children's	4	\$1,000	\$4,000	
Table, Children's Slant Top	3	\$1,200	\$3,600	
Table, Coffee	6	\$250	\$1,500	
Table, Coffee	1	\$400	\$400	
Table, Coffee	4	\$600	\$2,400	
Table, End	24	\$300	\$7,200	
Table, End	1	\$600	\$600	
Table, Juvenile	7	\$900	\$6,300	
Table, Juvenile	5	\$950	\$4,750	
Table, Juvenile	1	\$1,200	\$1,200	
Table, Reader's	1	\$1,400	\$1,400	
Table, Reader's	12	\$1,500	\$18,000	
Table, Reader's	13	\$1,500	\$19,500	
Workstation, Literacy Tutoring Counter	1	\$2,000	\$2,000	
Workstation, Study Counter	3	\$1,000	\$3,000	

## STAFF

2      \$700

Chair, Task	2	\$350	\$700	
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## Quantity and Cost of Shelving

<u>PUBLIC/STAFF TYPE OF</u> Furniture & Equipment	QTY	COST	Extended COST	<u>QTY</u>	<u>COST</u>
<b><u>PUBLIC</u></b>				<b><u>844</u></b>	<b><u>\$330,325</u></b>
36" Aisle DF 45"H Steel Shelving W/ 6 Shelves	52	\$375	\$19,500		
36" Aisle DF 66"H Steel Shelving W/ 10 Shelves	51	\$450	\$22,950		
36" Aisle DF 84"H Steel Shelving W/ 12 Shelves	185	\$520	\$96,200		
36" Aisle SF 45"H Magazine Display Shelving W/ 2	3	\$350	\$1,050		
36" Aisle SF 45"H Steel Shelving W/ 3 Shelves	50	\$225	\$11,250		
36" Aisle SF 60"H Steel Shelving W/ 4 Shelves	34	\$250	\$8,500		
36" Aisle SF 66"H Magazine Display Shelving W/ 3	2	\$450	\$900		
36" Aisle SF 66"H Steel Shelving W/ 5 Shelves	103	\$275	\$28,325		
36" Aisle SF 84"H Steel Shelving W/ 5 Shelves	104	\$275	\$28,600		
36" Aisle SF 84"H Steel Shelving W/ 7 Shelves	82	\$325	\$26,650		
36" Aisle SF 90"H Steel Shelving W/ 7 Shelves	9	\$325	\$2,925		
36" Aisle DF 66"H Magazine Display Shelving W/ 6 Shelves	24	\$500	\$12,000		
36" Aisle SF 66"H Newspaper Display Shelving W/ 3 Shelv	4	\$450	\$1,800		
Audio Cassette SF 66" Shelving Unit W/ 4 Zig-Zag	11	\$250	\$2,750		
Audio CD SF 66" Shelving W/ 4 Sliding Browser Boxes	8	\$850	\$6,800		
CD-ROM SF Shelving Unit W/ 4 Sliding Browser Boxes	2	\$850	\$1,700		
DVD Flip File Browser	21	\$850	\$17,850		
DVD SF Shelving Unit W/ 4 Sliding Browser Boxes	8	\$850	\$6,800		
Paperback SF 66" Shelving Unit W/ 5 Divider Shelves	77	\$375	\$28,875		
Video Cassette SF 66" Shelving Unit W/ 4 Divider	14	\$350	\$4,900		
<b><u>STAFF</u></b>				<b><u>20</u></b>	<b><u>\$6,000</u></b>
36" Aisle SF 90"H Back Issue Newspaper Unit W/ 6 Shelves	19	\$300	\$5,700		
36" Aisle SF 90"H Steel Shelving W/ 6 Shelves	1	\$300	\$300		

# Quantity and Cost of Special Purpose

## PUBLIC/STAFF TYPE OF

Furniture & Equipment

QTY	COST	Extended COST	<u>QTY</u>	<u>COST</u>
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## COMBINED

123      \$13,499

Book Truck	5	\$400	\$2,000
Bulletin Board	1	\$280	\$280
Cabinets, Below Counter	6	\$400	\$2,400
Cash Register	1	\$600	\$600
Chair, Visitor's	2	\$500	\$1,000
Coffee Maker/Urns	5	\$150	\$750
Coffee Thermos	10	\$50	\$500
Cutting Board, Kitchen	1	\$20	\$20
First Aid Kit	1	\$50	\$50
Garbage Bin, Interior	1	\$50	\$50
Hot Water Urn	5	\$150	\$750
Microwave Oven	3	\$300	\$900
Paper Towel Dispenser	3	\$0	\$0
Queing Area	6	\$0	\$0
Queuing Space (Per Person)	60	\$0	\$0
Recycle Bin	1	\$75	\$75
Refrigerator	3	\$1,200	\$3,600
Sink	3	\$0	\$0
Soap Dispenser	2	\$0	\$0
Soup Kettle	1	\$24	\$24
Table, Lamp	2	\$200	\$400
Toaster Oven	1	\$100	\$100

## PUBLIC

533      \$130,429

Art Work	1	\$0	\$0
Atlas Case	2	\$1,600	\$3,200
Book Truck	1	\$400	\$400
Bulletin Board	1	\$280	\$280
Cabinets, Below Counter	10	\$400	\$4,000
Cappuccino Machine	1	\$5,100	\$5,100
Case, Floor Display	2	\$1,600	\$3,200
Case, In-Wall Display	5	\$0	\$0
Case, In-Wall Display	3	\$2,500	\$7,500
Case, Merchandise Display	5	\$2,000	\$10,000
Case, Merchandise Display	1	\$2,300	\$2,300
Cash Register	2	\$600	\$1,200
Chair, Lounge	13	\$1,200	\$15,600
Change Machine (Bill & Coin)	1	\$2,500	\$2,500
Clock	3	\$150	\$450
Coat & Hat Rack	1	\$350	\$350

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# Quantity and Cost of Special Purpose

<u>PUBLIC/STAFF TYPE OF</u> Furniture & Equipment	QTY	COST	Extended COST	<u>QTY</u>	<u>COST</u>
<b><u>PUBLIC</u></b>				<b><u>533</u></b>	<b><u>\$130,429</u></b>
Coffee Bar Cart	1	\$12,650	\$12,650		
Coffee Maker/Urn	1	\$150	\$150		
Coffee Thermos	4	\$50	\$200		
Cold Drink Dispenser	1	\$1,800	\$1,800		
Commode	28	\$0	\$0		
Commode	3	\$3	\$9		
Cutting Board, Kitchen	1	\$20	\$20		
Desk, Friend's	2	\$2,500	\$5,000		
Diaper Changing Counter	8	\$0	\$0		
Dictionary Stand	1	\$1,200	\$1,200		
Dictionary Table Top Stand	2	\$85	\$170		
Directory	1	\$900	\$900		
Dishwasher	1	\$450	\$450		
Dolly, Chair	2	\$200	\$400		
Dolly, Table	2	\$500	\$1,000		
Drinking Fountain	3	\$0	\$0		
Easel	1	\$260	\$260		
Educational Play Module	12	\$250	\$3,000		
File Cabinet (Lateral)	3	\$650	\$1,950		
Flip Chart W/ Stand	1	\$250	\$250		
Garbage Bin, Interior	1	\$50	\$50		
Globe, Desktop	1	\$40	\$40		
Green Room	4	\$0	\$0		
Hand Dryer	6	\$0	\$0		
Hot Water Urn	1	\$150	\$150		
Lamp, Table	11	\$200	\$2,200		
Lockers, Children's	10	\$210	\$2,100		
Mirror	8	\$0	\$0		
Paper Towel Dispenser	9	\$0	\$0		
Plaque, Dedication	2	\$3,000	\$6,000		
Preparation/Rest Room	1	\$0	\$0		
Presentation Center	3	\$2,350	\$7,050		
Puppet Theater	1	\$500	\$500		
Queing Area	213	\$0	\$0		
Rack, Literature Display Handout	2	\$150	\$300		
Rack, Literature Display Handout	4	\$385	\$1,540		
Recycle Bin	1	\$75	\$75		
Refrigerator	1	\$1,200	\$1,200		
Safe, Floor	1	\$700	\$700		
Shelving, SF 90"H Steel W/ 7 Shelves	16	\$325	\$5,200		

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# Quantity and Cost of Special Purpose

<u>PUBLIC/STAFF TYPE OF</u> Furniture & Equipment	QTY	COST	Extended COST	<u>QTY</u>	<u>COST</u>
<b><u>PUBLIC</u></b>				<b><u>533</u></b>	<b><u>\$130,429</u></b>
Sign, Announcement	3	\$155	\$465		
Sink	2	\$0	\$0		
Sink And Counter	16	\$0	\$0		
Soap Dispenser	12	\$0	\$0		
Stall	28	\$0	\$0		
Stamp Machine, Postal	1	\$0	\$0		
Stool, Kick-Step	10	\$60	\$600		
Storage Cabinet	2	\$500	\$1,000		
Stove Top, Electric	1	\$450	\$450		
Supply Cabinet	1	\$500	\$500		
Table, Lamp	2	\$200	\$400		
Urinal	8	\$0	\$0		
Waste Basket	1	\$20	\$20		
White Board	1	\$400	\$400		
White Board	9	\$500	\$4,500		
White Board	7	\$1,000	\$7,000		
Workstation, Children's Craft Counter	2	\$0	\$0		
Workstation, Preparation Counter	1	\$2,500	\$2,500		
<b><u>STAFF</u></b>				<b><u>323</u></b>	<b><u>\$75,930</u></b>
AV Bin, Depressible	1	\$800	\$800		
Book Bin, Depressible	2	\$570	\$1,140		
Book Truck	53	\$400	\$21,200		
Bottled Water Dispenser	1	\$750	\$750		
Bulletin Board	14	\$280	\$3,920		
Carpet Cleaning Machine	1	\$800	\$800		
Cleaning Cart	3	\$90	\$270		
Clock	4	\$150	\$600		
Coat & Hat Rack	2	\$350	\$700		
Coffee Maker/Urn	1	\$150	\$150		
Collator	1	\$700	\$700		
Commode	17	\$0	\$0		
Diaper Changing Counter	2	\$0	\$0		
Drive-up Book Return Window	1	\$3,880	\$3,880		
File Cabinet (Lateral)	1	\$500	\$500		
File Cabinet (Lateral)	8	\$650	\$5,200		
First Aid Kit	1	\$50	\$50		
Flat File	1	\$2,500	\$2,500		
Garbage Bin, Interior	1	\$50	\$50		
Hand Dryer	4	\$0	\$0		

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# Quantity and Cost of Special Purpose

<u>PUBLIC/STAFF TYPE OF</u>			Extended	<u>QTY</u>	<u>COST</u>
Furniture & Equipment	QTY	COST	COST		
<b><u>STAFF</u></b>				<b><u>323</u></b>	<b><u>\$75,930</u></b>
Hand Truck	2	\$150	\$300		
Ladder, Step	2	\$185	\$370		
Lamp, Desk	2	\$200	\$400		
Lamp, Table	3	\$200	\$600		
Locker	21	\$0	\$0		
Lockers, Bicycle	2	\$1,200	\$2,400		
Mailbox	1	\$75	\$75		
Mirror	4	\$0	\$0		
Mirror	3	\$300	\$900		
Mop Bucket	3	\$95	\$285		
Paper Cup Dispenser	1	\$25	\$25		
Paper Towel Dispenser	8	\$0	\$0		
Postage Meter/Scale	1	\$150	\$150		
Presentation Center	1	\$2,350	\$2,350		
Queing Area	5	\$0	\$0		
Recycle Bin	9	\$75	\$675		
Shelving, Industrial	36	\$200	\$7,200		
Shelving, SF 90"H Steel W/ 7 Shelves	4	\$325	\$1,300		
Sink	4	\$0	\$0		
Sink And Counter	12	\$0	\$0		
Sink, Mop	3	\$0	\$0		
Soap Dispenser	8	\$0	\$0		
Stall	17	\$0	\$0		
Stool, Kick-Step	1	\$60	\$60		
Storage Cabinet	8	\$500	\$4,000		
Storage Cage	6	\$0	\$0		
Supply Cabinet	18	\$500	\$9,000		
Urinal	5	\$0	\$0		
Vacuum Cleaner, Dry Upright	1	\$430	\$430		
Vending Machine	4	\$0	\$0		
Waste Basket	3	\$20	\$60		
White Board	1	\$300	\$300		
White Board	2	\$400	\$800		
White Board	2	\$500	\$1,000		
Wrapping Paper Dispenser, Counter Top	1	\$40	\$40		



# Quantity and Cost of Staff Workspace

## PUBLIC/STAFF TYPE OF

Furniture & Equipment

QTY

COST

Extended QTY

COST

COST

### COMBINED

107

\$99,650

Cabinets, Above Counter	33	\$300	\$9,900
Cabinets, Below Counter	43	\$400	\$17,200
Chair, Task	12	\$350	\$4,200
Desk, Security	1	\$2,000	\$2,000
Shelving, SF 45"H Steel W/ 3 Shelves	2	\$225	\$450
Workstation, Children's Desk	2	\$4,800	\$9,600
Workstation, Circulation Check Out Desk	4	\$4,800	\$19,200
Workstation, Circulation Fines & Fees Desk	2	\$3,200	\$6,400
Workstation, Circulation Patron Registration Desk	1	\$3,200	\$3,200
Workstation, Food Preparation Counter	1	\$1,500	\$1,500
Workstation, Food Preparation Counter	1	\$2,000	\$2,000
Workstation, Homework Center Desk	1	\$4,800	\$4,800
Workstation, Reference Desk	4	\$4,800	\$19,200

### PUBLIC

93

\$58,225

Cabinets, Below Counter	25	\$400	\$10,000
Chair, Conference Room	8	\$600	\$4,800
Chair, Task	17	\$350	\$5,950
Credenza	1	\$2,000	\$2,000
Desk, Professional	1	\$2,200	\$2,200
Restroom	1	\$0	\$0
Shelving, SF 84"H Steel W/ 6 Shelves	17	\$300	\$5,100
Shelving, SF 90" H Steel W/7 Shelves	7	\$325	\$2,275
Table, Coffee	1	\$400	\$400
Table, Conference	4	\$1,000	\$4,000
Table, Conference	2	\$1,800	\$3,600
Table, End	1	\$600	\$600
Table, Work	2	\$400	\$800
Workstation, Coffee Shop Counter	2	\$2,000	\$4,000
Workstation, Coffee Shop Service Counter	1	\$4,200	\$4,200
Workstation, Food Preparation Counter	1	\$2,000	\$2,000
Workstation, Reception Desk	1	\$4,800	\$4,800
Workstation, Sorting Counter	1	\$1,500	\$1,500

### STAFF

302

\$255,075

Cabinet, Below Counter	5	\$400	\$2,000
Cabinets, Above Counter	35	\$300	\$10,500
Cabinets, Below Counter	30	\$400	\$12,000
Chair, Assistant Library Director's	1	\$550	\$550

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# Quantity and Cost of Staff Workspace

## PUBLIC/STAFF TYPE OF

Furniture & Equipment

QTY

COST

Extended QTY  
COST

COST

## STAFF

302

\$255,075

Chair, Café	28	\$200	\$5,600
Chair, Department Head's	2	\$550	\$1,100
Chair, Professional's	2	\$400	\$800
Chair, Staff Lounge	6	\$1,200	\$7,200
Chair, Supervisor's	1	\$450	\$450
Chair, Task	47	\$350	\$16,450
Chair, Visitor's	16	\$500	\$8,000
Credenza	5	\$2,000	\$10,000
Desk, Assistant Library Director's	1	\$2,500	\$2,500
Desk, Business Manager's	1	\$2,200	\$2,200
Desk, Circulation	4	\$2,500	\$10,000
Desk, Custodial	1	\$2,000	\$2,000
Desk, Professional	3	\$2,200	\$6,600
Desk, Professional	1	\$2,500	\$2,500
Net Square Feet	3	\$0	\$0
Shelving, SF 60"H Steel W/ 5 Shelves	2	\$275	\$550
Shelving, SF 84"H Wood W/ 6 Shelves	10	\$1,350	\$13,500
Shelving, SF 90" H Steel W/7 Shelves	2	\$325	\$650
Shelving, SF 90"H Steel W/ 7 Shelves	25	\$325	\$8,125
Sofa (3 Seat)	1	\$1,200	\$1,200
Stool	1	\$450	\$450
Table, Café	7	\$400	\$2,800
Table, Coffee	1	\$400	\$400
Table, Conference	2	\$1,800	\$3,600
Table, Conference	1	\$4,500	\$4,500
Table, End	3	\$300	\$900
Table, Work	4	\$400	\$1,600
Workbench, Custodial	15	\$350	\$5,250
Workstation, AV Counter	2	\$2,500	\$5,000
Workstation, Cataloging Office System	1	\$6,300	\$6,300
Workstation, Circulation Check In Counter	3	\$1,500	\$4,500
Workstation, Clerical Counter	3	\$1,250	\$3,750
Workstation, Clerical Counter	4	\$1,500	\$6,000
Workstation, Clerical Counter	2	\$2,000	\$4,000
Workstation, Clerical Office System	4	\$5,000	\$20,000
Workstation, Clerical Office System	1	\$5,500	\$5,500
Workstation, Inter-Branch Sorting Counter	1	\$1,750	\$1,750
Workstation, Mending Counter	1	\$1,250	\$1,250
Workstation, Mending Counter	1	\$1,500	\$1,500
Workstation, Preparation Counter	1	\$2,250	\$2,250

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## Quantity and Cost of Staff Workspace

<u>PUBLIC/STAFF TYPE OF</u>			Extended	<u>QTY</u>	<u>COST</u>
Furniture && Equipment	QTY	COST	COST		
<b><u>STAFF</u></b>				<b><u>302</u></b>	<b><u>\$255,075</u></b>
Workstation, Preparation Counter	1	\$2,500	\$2,500		
Workstation, Processing Counter	1	\$1,250	\$1,250		
Workstation, Reference Office System	5	\$6,300	\$31,500		
Workstation, Secretarial Office System	1	\$6,300	\$6,300		
Workstation, Shipping & Receiving Counter	1	\$2,500	\$2,500		
Workstation, Sorting Counter	3	\$1,750	\$5,250		

# Quantity and Cost of Technology

<u>PUBLIC/STAFF TYPE OF</u>			Extended	<u>QTY</u>	<u>COST</u>
Furniture & Equipment	QTY	COST	COST		
<b><u>COMBINED</u></b>				<b><u>52</u></b>	<b><u>\$62,650</u></b>
Bar Code Reader, Hand Held	5	\$1,000	\$5,000		
Computer, Staff Desktop	14	\$1,600	\$22,400		
Demagnetizer/Desensitizer	5	\$310	\$1,550		
Printer, Ink-Jet (B&W)	4	\$400	\$1,600		
Printer, Ink-Jet (Color)	1	\$500	\$500		
Printer, Receipt	5	\$500	\$2,500		
Security Gates, Book Theft Detection System	2	\$12,000	\$24,000		
Telephone Central Station	1	\$600	\$600		
Telephone Handset	13	\$300	\$3,900		
Telephone Headset	2	\$300	\$600		
<b><u>PUBLIC</u></b>				<b><u>622</u></b>	<b><u>\$824,455</u></b>
Audio Amplifier	1	\$575	\$575		
Audio Cassette Tape Player/Recorder	3	\$550	\$1,650		
Audio Pre-Amplifier	1	\$1,000	\$1,000		
Audio Receiver	1	\$1,200	\$1,200		
Audio Teleconferencing System	2	\$5,000	\$10,000		
AV/Technology Equipment Cart, Large	2	\$475	\$950		
AV/Technology Equipment Cart, Small	1	\$150	\$150		
Booth, Multimedia	2	\$2,500	\$5,000		
Booth, Young Adult	4	\$2,500	\$10,000		
Cabinet, AV Equipment	6	\$650	\$3,900		
Cabinet, AV Media Storage	1	\$1,650	\$1,650		
CD Player	2	\$180	\$360		
CD/Cassette Tape Player	4	\$230	\$920		
Chair, Technology Workstation	83	\$400	\$33,200		
Chair, Technology Workstation Task	64	\$350	\$22,400		
Computer, Multimedia Desktop	8	\$2,000	\$16,000		
Computer, OPAC (On-Line Public Access) Desktop	31	\$1,200	\$37,200		
Computer, OPAC Desktop Spanish Language	7	\$1,200	\$8,400		
Computer, Public Desktop	137	\$1,200	\$164,400		
Computer, Public Desktop Spanish Language	18	\$1,200	\$21,600		
Computer, Staff Desktop	5	\$1,600	\$8,000		
Copier	1	\$4,000	\$4,000		
Copier	1	\$5,000	\$5,000		
Copier, B&W Freestanding	5	\$4,000	\$20,000		
Copier, Color Freestanding	1	\$5,000	\$5,000		
DVD Player	8	\$800	\$6,400		
FAX Machine, Desktop Coin-Operated	1	\$1,025	\$1,025		
Headphone, AV	18	\$60	\$1,080		

A Libris Design Building Program

Fontana Library and Resource Technology Center

Report Printed on: 1/13/2004 10:26:16 PM

# Quantity and Cost of Technology

## PUBLIC/STAFF TYPE OF

Furniture & Equipment

QTY COST

Extended QTY COST  
COST

## PUBLIC

622 \$824,455

Printer, Ink-Jet (B&W)	8	\$400	\$3,200
Printer, Ink-Jet (Color)	1	\$500	\$500
Printer, Laser (B&W)	3	\$600	\$1,800
Printer, Laser (Color)	6	\$2,300	\$13,800
Printer, Receipt	1	\$500	\$500
Projection Screen, Motorized Ceiling	6	\$1,050	\$6,300
Projection Screen, Wall Mounted	1	\$340	\$340
Projector, Ceiling Mounted AV	3	\$5,800	\$17,400
Projector, Data Desktop	2	\$3,500	\$7,000
Rack, AV Equipment	1	\$1,250	\$1,250
Scanner, Flat	2	\$1,800	\$3,600
Self Check-Out Counter	3	\$875	\$2,625
Self Check-Out Machine	3	\$30,000	\$90,000
Telephone Handset	3	\$300	\$900
Telephones, Public Pay (2 Heights)	1	\$0	\$0
TV Monitor With DVD Player & Flat Screen	1	\$6,500	\$6,500
TV Monitor, 60" Large Screen	4	\$3,500	\$14,000
TV/VCR Player	1	\$0	\$0
TV/VCR Player	2	\$300	\$600
Video Cassette Player/Recorder	6	\$230	\$1,380
White Board, Electronic	1	\$3,600	\$3,600
Workstation, Computer Training	12	\$1,900	\$22,800
Workstation, Computer Training	1	\$1,900	\$1,900
Workstation, Technology Carrel	27	\$1,800	\$48,600
Workstation, Technology Carrel	82	\$1,900	\$155,800
Workstation, Technology Counter	15	\$1,000	\$15,000
Workstation, Technology Counter	8	\$1,750	\$14,000

## STAFF

94 \$104,440

Cabinet, AV Equipment	1	\$650	\$650
Cabinet, AV Media Storage	4	\$1,800	\$7,200
Chair, Technology Workstation	3	\$400	\$1,200
Computer, OCLC Desktop	1	\$1,200	\$1,200
Computer, Public Desktop	4	\$1,200	\$4,800
Computer, Staff Desktop	22	\$1,600	\$35,200
Computer, Staff Portable	5	\$2,700	\$13,500
Copier, B&W Freestanding	1	\$4,000	\$4,000
Copier, Color Freestanding	1	\$5,000	\$5,000
Demagnetizer/Desensitizer	4	\$310	\$1,240
FAX Machine, Desktop	3	\$800	\$2,400

A Libris Design Building Program

Report Printed on: 1/13/2004 10:26:16 PM

Fontana Library and Resource Technology Center

## Quantity and Cost of Technology

### PUBLIC/STAFF TYPE OF

Furniture & Equipment

QTY

COST

Extended QTY  
COST

COST

### STAFF

94

\$104,440

Fax Stand	1	\$250	\$250
Printer Stand	1	\$300	\$300
Printer, Ink-Jet (B&W)	2	\$400	\$800
Printer, Ink-Jet (Color)	1	\$500	\$500
Printer, Laser (B&W)	1	\$600	\$600
Printer, Laser (Color)	2	\$2,300	\$4,600
Projection Screen, Motorized Ceiling	1	\$1,050	\$1,050
Rack, Computer / Communications Equipment	3	\$1,500	\$4,500
Telecommunications Backboard	2	\$400	\$800
Telecommunications Equipment/Hub / Multiplexer	1	\$1,500	\$1,500
Telephone Handset	24	\$300	\$7,200
TV Monitor, 32"	1	\$850	\$850
TV/VCR Player	1	\$300	\$300
Uninterruptable Power Supply (UPS), Multiple Devices	2	\$500	\$1,000
Workstation, Technology Carrel	2	\$1,900	\$3,800

**Report Totals:**      4,208      \$2,562,084

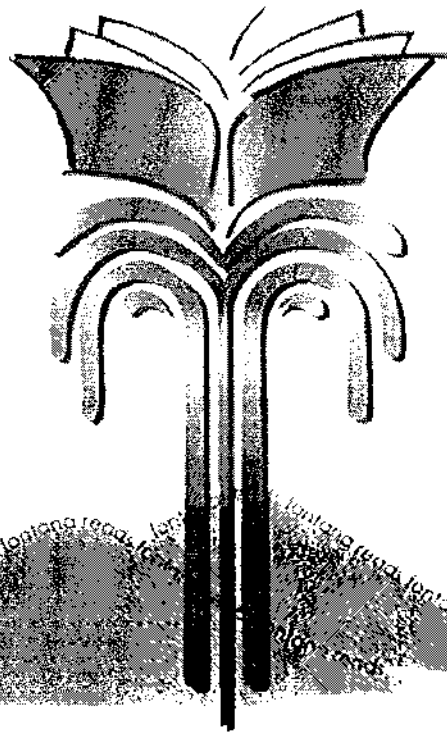
**Projected Library Operating Budget (Multipurpose Project)**

<b>EXPENDITURES</b>		<b>INITIAL START-UP EXPENSES</b>	<b>ANNUAL EXPENSES</b>
<b>1. Salaries/Benefits</b>	>	\$ 75,000	\$ 719,440
<b>2. Facilities Costs</b>	>	\$ 10,000	\$ 450,000
Insurance			
Maintenance [Including Custodial, Trash, Landscaping, etc.]			
Security			
Utilities			
Other (Specify):			
<b>3. Equipment &amp; Supplies Costs</b>	>	\$ 20,000	\$ 40,000
Equipment			
Supplies			
<b>4. Materials</b>	>	\$ 400,000	\$ 250,000
Books, AV, Magazines, & Newspapers			
Electronic Services & Subscriptions			
Other Formats			
<b>5. Other Allocations (As applicable to the proposed project)</b>	>	\$ 50,000	\$ 325,000
Administrative/Business Office			
Branch Operations			
Circulation Services			
Facilities & Capital Coordination			
Program Planning			
Technical Services			
Other (Specify):			
<b>6. Miscellaneous (Other)</b>	>	\$ 50,000	\$ 10,000
<b>7. TOTAL EXPENDITURES:</b>	>	\$ 605,000	\$ 1,794,440

# **FONTANA LIBRARY AND RESOURCE TECHNOLOGY CENTER**

**California Reading And Literacy Improvement  
and Public Library Construction and  
Renovation Bond Act of 2000**

*Fontana*  
**READS**



## **Concept Design Outline Specification**

March 2003

Architect's Project No.: 6030-9291-01

**RNL**  
**DESIGN**

800 Wilshire Boulevard; Suite 400  
Los Angeles, California 90017



NUMBER TITLE

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LEVELS ONE THRU THREE NUMBERS AND TITLES

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1020	PROJECT PROGRAM
1030	EXISTING CONDITIONS

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A1020	(Not Used)
A1030	SLAB ON GRADE
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A2010	BASEMENT EXCAVATION
A2020	BASEMENT WALLS

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<b>NUMBER</b>	<b>TITLE</b>
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**NUMBER TITLE**

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G2050	LANDSCAPING

<b>G30__</b>	<b>SITE CIVIL/MECHANICAL UTILITIES</b>
G3010	WATER SUPPLY
G3020	SANITARY SEWER
G3030	STORM SEWER
G3040	HEATING DISTRIBUTION
G3050	COOLING DISTRIBUTION
G3060	FUEL DISTRIBUTION
G3090	OTHER SITE MECHANICAL UTILITIES

<i>NUMBER</i>	<i>TITLE</i>
<b>G40__</b>	<b>SITE ELECTRICAL UTILITIES</b>
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G4020	SITE LIGHTING
G4090	OTHER SITE ELECTRICAL UTILITIES
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Z1050	PERMITS, INSURANCE, AND BONDS

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**PROJECT DESCRIPTION****10 PROJECT DESCRIPTION****1010 Project Summary****01110**

Public library facility to house administrative, circulation and reference functions, and community facilities to serve the general public. Includes site development and underground parking garage.

**1020 Project Program****Facilities and Spaces**

The building is a two-story Type II fire resistive facility with automatic fire sprinkler systems and a gross area of 92,500 sq. ft. The parking garage located below the building is about 59,044 sq. ft.

**Applicable Codes**

1998 California Administrative Code (CAC) - Title 24, Part 1 (CCR) to 1997-UBC.

1998 California Building Code (CBC) - Title 24, Part 2 (CCR) to 1997 UBC.

1998 California Electrical Code (CEC) - Title 24, Part 3 (CCR) to 1996 UBC.

1998 California Mechanical Code (CMC) - Title 24, Part 4 (CCR) to 1997 UBC.

1998 California Plumbing Code (CPC) - Title 24, Part 5 (CCR) to 1997 UPC.

1998 California Energy Code (CEC) - Title 24, Part 6 (CCR) to 1997 UEC.

1998 California Fire Code (CFC) - Title 24, Part 9 (CCR) to 1997 UFC.

National Fire Protection Association (NFPA) for the following:

Fire Extinguishers, NFPA-10. (1998 NFPA)

Fire Sprinklers, NFPA-13 (1998 NFPA)

National Electric Code - NFPA-79 (1996 NFPA)

City of Fontana Municipal Code - Current Edition with Amendments.

City of Fontana Community Development Code - Current Edition with Amendments.

**Authorities Having Jurisdiction:**

California State Division of Architecture (for plan review)

City of Fontana Community Development Department for the following:

Building and Safety Division.

Community Development Division.

Planning Commission.

San Bernardino County Fire Department, Division of Fire Safety, Fire Prevention Bureau.

Southern California Air Quality Management District (SCAQMD)

Fontana Water Company, Division of San Gabriel Valley Water Company.

Southern California Edison Company (SoCal Edison).

Southern California Gas Company (SoCal Gas).

**NUMBER TITLE****General Engineering Design Performance Requirements:**

Seismic Zone: 4.  
 Climate Zone: 10.  
 Floor Zone: None.  
 Basic Wind Speed and Exposure: 80 mph, C.

**1020.01 Site Program****Facilities and Spaces**

Development of a 1.83-acre site between exterior walls of building and site property line.

East side of site to be level with pavement of Wheeler Avenue in order to accommodate public gatherings, farmer's market and the like.

South side of site to accommodate grade level parking and entrance to parking garage beneath building.

North and west side of site to accommodate general pedestrian circulation and present a variety of softscape materials to enhance aesthetic and functional building elements.

**1020.02 Facility Program****Facilities and Spaces**

See comprehensive library facility program prepared by library consultant Atkins & Associates.

Building occupancies:

General staff offices and related spaces (Group B Occupancy).  
 Book stacks and reading areas (Group A-2 Occupancy).  
 Auditorium (Group A-2.1 Occupancy). Auditorium to be slightly detached from library building so that it can better serve community activities without compromising security of library building.  
 Meeting and conference rooms (Group A-3 Occupancy).  
 Parking Garage (Group S-3 Occupancy).

Building floor plate sizes:

Parking Level: 59,044 gsf.  
 First Floor: 53,200 gsf.  
 Second Floor: 39,500 gsf.

**1030 Existing Conditions****01110**

The proposed project site includes several existing parcels:

Parcel No. 0192-041-7 & 8 and Parcel No. 0192-042-1, 2 & 3 of Tract 2753 – Fontana Townsite Lot #1 & #4.

Existing structures on these parcels shall be demolished.

<i>NUMBER</i>	<i>TITLE</i>	<i>PROPOSED SECTION NUMBER</i>
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	A Conditional Use Permit (CUP) is pending with the City's Planning Commission and is subject to the City's Design Review Process.	
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Geotechnical Investigation: The following geotechnical report was prepared for a project being developed on property adjacent to the library project site. Certain of its recommendations and conclusions are used in preparing this document.

Geotechnical Investigation For Proposed Improvements At Fontana Civic Center Park  
Seville Avenue, East of Sierra Avenue  
City of Fontana, California

By: Leighton and Associates, Geotechnical Consultants  
Dated: October 4, 2001  
Project No.: 020539-001

END OF PROJECT DESCRIPTION

NUMBER TITLE

## ELEMENT A SUBSTRUCTURE

### A10 FOUNDATIONS

#### A1010 Standard Foundations

Excavation General: Partially remove and re-compact soils under foundations to reduce potential for excessive total and differential settlement (per referenced geotechnical report).

##### A1010.01 Wall Foundations

Provide excavation, dewatering, formwork, concrete, reinforcement, backfill and compaction, dampproofing and as cast wall finish.

Continuous Footings: Cast-in-place Concrete	03300
Foundation Walls: Cast-in-place Concrete	03300

##### A1010.02 Column Foundations

Provide excavation, dewatering, formwork, concrete, reinforcement, anchor bolts, backfill and compaction.

Spread Footings: Cast-in-place Concrete	03300
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#### A1020 (Not Used)

#### A1030 Slab on Grade

Excavation General: Partially remove and recompact soils under slab-on-grade to reduce potential for excessive total and differential settlement (per referenced geotechnical report).

##### A1030.01 Standard and Inclined Slabs on Grade

Provide slab construction supported continuously by earth or compacted fill. Include fine grading, gravel fill, expansion joints, control joints, finish and curing.

Grading	02310
Soil Treatment	02360
Earthwork	02300
Concrete Forms and Accessories	03100
Concrete Accessories	03150
Concrete Reinforcement	03200
Cast-in-place Concrete	03300



**NUMBER TITLE**  
**A1030.02 Trenches**

Provide storm drainage trench at Parking Garage entrance to collect and transmit storm water to sewer and to prevent exterior water from entering garage. Include finish and curing.

Excavation and Fill	02315
Concrete Forms and Accessories	03100
Concrete Accessories	03150
Concrete Reinforcement	03200
Cast-in-place Concrete	03300
Grating Trench Cover and Frame: Metal Fabrications	05500

**A1030.03 Bases**

Provide protrusions including light pole bases, housekeeping pads and equipment pads above slabs on grade. Include finish and curing.

Excavation and Fill	02315
Concrete Forms and Accessories	03100
Concrete Accessories	03150
Concrete Reinforcement	03200
Cast-in-place Concrete	03300
Anchor Bolts: Metal Fabrications	05500

## **A20 PARKING GARAGE CONSTRUCTION**

### **A2010 Parking Garage Excavation**

**A2010.01 Excavation for Parking Garage 02315**

Provide excavation for parking garage spaces below grade.

**A2010.02 Backfill and Compaction 02315**

Place backfill and compact fill in excess excavation for building spaces below grade.

Earth Backfill: Use suitable materials from site.

**A2010.03 Excavation Support Systems 02260**

Provide cribbing, anchors, and other means of permanent and temporary support of excavations. Support system likely to be one of following as recommended by Geotechnical Engineer:

Cribbing and Walers	02260
Shoring	02250

<i>NUMBER</i>	<i>TITLE</i>
<b>A2020</b>	<b>Parking Garage Walls</b>

Sec Retaining Walls: G2040

<b>A2020.01</b>	<b>Parking Garage Wall Construction</b>	<b>03300</b>
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Provide cast-in-place concrete perimeter walls for parking garage spaces below grade. Include formwork, reinforcing, concrete, concrete finish, curing. Include framed and sleeved penetrations for services.

<b>A2020.02</b>	<b>Parking Garage Wall Dampproofing</b>	<b>07110</b>
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Provide cut back bituminous dampproofing applied in two coats to provide resistance to moisture penetration through below grade concrete walls subject to dampness and direct water contact, but not subject to hydrostatic pressures.

END OF ELEMENT A SUBSTRUCTURE

NUMBER TITLE

## ELEMENT B SHELL

### B10 SUPERSTRUCTURE

#### B1010 Floor Construction

##### B1010.01 Floor Structural Frame

Provide structural elements required for support of floor construction. Include framed openings for services.

Columns Supporting Floors:

Cast-in-place Concrete: Below first floor elevation 03300

Structural Steel: Above first floor elevation 05120

Floor Girders and Beams:

Cast-in-place Concrete: First floor 03300

Structural Steel: Above first floor elevation 05120

Floor Joists:

Steel Joists: Above first floor elevation 05210

##### B1010.02 Floor Decks

Provide cast in place concrete deck floor construction at first floor and structural deck floor construction above. Include framed and sleeved penetrations for services and housekeeping pads for equipment.

Cast-in-place Concrete including infill for steel floor deck 03300

Steel Floor Deck 05310

##### B1010.04 Exterior Stairs

At Gridline B9. Provide exterior exitway stairs above grade. Include protections and railings.

Cast-in-place Concrete 03300

Metal Handrails and Railings 05520

##### B1010.06 Floor Construction Fireproofing

Bottom side of 2nd floor structure.

Provide mineral fiber and cementitious coverings to provide fire resistance to floor construction.

Exposed Locations: Cementitious Fireproofing 07810

Concealed Locations: Mineral Fiber Fireproofing 07810

## NUMBER TITLE

**B1010.07 Floor Construction Firestopping****07840**

Penetrations through 1st, 2nd and attic floor decks.

Provide material installed in cavities, around pipe penetrations, and in other openings in floor decks to prevent spread of fire and smoke. Include fibrous fire safing, fire penetration sealants, firestopping mortars, firestopping pillows, intumescent firestopping foams, silicone firestopping foams and mechanical firestopping devices for Plastic Pipe.

**B1020 Roof Construction****B1020.01 Roof Structural Frame**

Provide structural elements required for support of roof construction. Include framed openings for services.

Columns Supporting Roofs: Structural Steel	05120
Roof Girders and Beams: Structural Steel	05120
Roof Trusses: Combination of following:	
Structural Metal Framing	05100
Structural Steel	05120
Roof Joists: Combination of following:	
Steel Joists	05210
Cold Formed Metal Joists	05420
High Performance Coatings: Epoxy urethane	09960

**B1020.02 Roof Decks**

Provide structural roof deck construction. Include framed and sleeved penetrations for services and housekeeping pads for equipment.

Steel Roof Deck: 22 gage minimum thickness with G-60 galvanized coating	05310
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**B1020.03 Roof Construction Insulation**

See Roof coverings: B3010

**B20 EXTERIOR ENCLOSURE****B2010 Exterior Walls****B2010.01 Exterior Wall Exterior Skin**

Provide non-structural outside face elements of exterior walls. Include expansion control, water repellents, joint sealers and special coatings.

Molding and Trim: Glass Fiber Reinforced Concrete (GFRC). Anchor to concrete walls using fixed anchors. Anchor over air infiltration barrier on gypsum sheathing to metal studs. Anchor to CMU with fixed anchors.

03491

<b>NUMBER</b>	<b>TITLE</b>	<b>PROPOSED SECTION NUMBER</b>
	Portland Cement Plaster (Stucco): 3 coat system applied to galvanized metal lath on air infiltration barrier on either gypsum sheathing on metal studs or CMU. Latex modified finish coat with integral color.	09220
	Gypsum Board Sheathing: 1/2 inch thick	09250
	Air Infiltration Barrier: 30# asphalt saturated felt	09250
	Water Repellents: Silane formulation, apply to stucco	07190
	Joint Sealers: Urethane formulations	07900
<b>B2010.03</b>	<b>Exterior Screens</b>	05700
	Provide metal screen wall outboard of finished exterior wall elements.	
	Ornamental Metal: 3/16 inch thick prefinished (varigated two color), plasma cut solid sheet aluminum panels on prefinished aluminum framing clipped to exterior wall exterior skin elements.	
<b>B2010.03</b>	<b>Exterior Wall Construction</b>	
	Provide exterior wall construction including back-up systems for wall veneer.	
	At Parking Garage entry, below 1st floor level, and all around building to 3 feet above 1st floor level: Cast-in-place Concrete with smooth stained finish at exposed surfaces.	03300
	1st floor level and above, typical: Concrete Masonry Units (CMU), standard non-decorative color and finish	
	At Auditorium: Load-Bearing-Metal Studs: 6 inch deep, 16 gage, G-60 galvanized, space 16 inches o.c. maximum	05410
<b>B2010.04</b>	<b>Exterior Wall Vapor Retarders and Insulation</b>	
	Provide sheet materials installed separately, or integral with insulation, on inside face of exterior metal stud wall assemblies to provide resistance to vapor penetration into insulation.	
	Vapor Retarders: Foil facing, scrim reinforced	07260
	Thermal insulation installed in wall assemblies: Mineral or Glass Fiber Batt Insulation	07210
<b>B2010.05</b>	<b>Exterior Wall Interior Skin</b>	
	Provide materials to provide finish or protective covering on inside face of exterior walls.	
	Gypsum Board: 5/8 inch thick, type X, Level 4 finish typical, Level 5 finish (skim coat) on Great Hall wall surfaces (area under skylight)	09250
<b>B2010.06</b>	<b>Exterior Louvers</b>	
	Provide louvers which are not an integral part of mechanical equipment, including louvers connected to ducts.	
	Wall Louvers: Aluminum, drainable with bird screen, dark bronze anodized finish	10210
<b>B2010.07</b>	<b>Exterior Patio and Arcade Walls and Railings</b>	
	Provide complete wall and railing assemblies. Cast-in-place concrete or unit masonry core with wall assemblies with stone veneer and stucco finish, metal railings.	
	Cast-in-place Concrete. Smooth, stained finish at exposed surfaces.	03300

<b>NUMBER</b>	<b>TITLE</b>	<b>PROPOSED SECTION NUMBER</b>
	Concrete Masonry Units	04220
	Portland Cement Plaster (Stucco)	09220
	Metal Handrails and Railings	05520

**B2010.08 Exterior Soffits And Ceilings**

Provide finish assemblies for exterior soffits, eaves and ceilings at canopies and roof.

Portland Cement Plaster (Stucco) skim coat with latex modified finish coat with integral color. 09220  
Gypsum Soffit Board on suspended metal channel framing. 09250

**B2020 Exterior Windows****B2020.01 Storefronts and Windows**

Provide storefront framing systems fabricated from formed and extruded metal, and glass components for exterior use. Include glazing, framing, and other associated items. Include wall opening elements such as lintels, sills, trim, flashings, and joint sealers.

At storefronts, punched windows (non-operable), entrances (sidelites): Include the following:

Wood Sills and Trim: Transparent stained wood. 06402  
Aluminum-Framed Storefronts: Aluminum framing with dark bronze color anodized finish. Provide transparent stained wood sills and casing trim at windows 08410  
Low-e, clear, insulated glass units, 1 inch overall thickness, 1/4 inch inboard and outboard lites 08800  
Spandrel Panels: Insulated glass units, 1 inch overall thickness, 1/4 inch inboard and outboard lites with opaque ceramic coating on #4 surface. 08800

**B2020.02 Glazed Curtain Wall**

Provide standard fabricated curtain wall systems consisting of framing members, sash, glazing, spandrel and infill panels, fasteners, and sealants installed as an integrated system to enclose a vertical surface. Provide systems designed for multistory construction.

Segmented unit at east and west walls of south wing façade: Include the following:

Glazed Aluminum Curtain Wall: Aluminum framing with dark bronze color anodized finish. 08910

<b>NUMBER</b>	<b>TITLE</b>	<b>PROPOSED SECTION NUMBER</b>
	Low-e, clear, insulated units, 1 inch overall thickness, 1/4 inch inboard and outboard lites	08800
	Spandrel Panels: Insulated glass units, 1 inch overall thickness, 1/4 inch inboard and outboard lites with opaque ceramic coating on #4 surface.	08800

## **B2030 Exterior Doors**

### **B2030.01 Exterior Entrance Doors**

Provide exterior personnel door assemblies at main entrances, metal framed glass with glass panels. Provide automatic door operators at main entrance. Include glazing frames (when not part of storefront or curtain wall system), hardware, and accessories. Include wall opening elements such as lintels, sills, flashings, and joint sealers.

Main entrance east elevation; all entrances into building from Plaza and Arcade; all entrances into building from west Patio: Include the following:

Aluminum-Framed Storefronts: Aluminum framing with dark bronze color anodized finish	08410
Low-e, clear, insulated units, 1 inch overall thickness, 1/4 inch inboard and outboard lites	08800

### **B2030.02 Exterior Utility Doors**

Provide exterior personnel doors assemblies other than at main entrances. Include glazing, frames, hardware, door louvers, and accessories. Include wall opening elements such as lintels, sills, flashings, and joint sealers.

At north and west exterior stairs: Steel Doors and Frames	08110
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## **B30 ROOFING**

### **B3010 Roof Coverings**

#### **B3010.01 Deck Insulation**

Provide thermal insulation mechanically attached to top of steel roof decks.

Roof and Deck Insulation	07220
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Roof Board Insulation beneath concrete tile roofing: Glass Mat Gypsum Board (Dens Glass) Faced, Polyisocyanurate Board Insulation; ASTM C 1289, Type V, faced with glass mat gypsum board on major surface and fibrous mat on other.

Roof Board Insulation beneath built-up or modified bitumen roofing membrane: Polyisocyanurate Board Insulation; Type II, felt or glass-fiber mat facer on both major surfaces.

NUMBER	TITLE	PROPOSED SECTION NUMBER
B3010.02	Roofing Tiles	07300

Provide lapped roofing tiles, including underlayment and fastening, venting and mortar products, and methods.

Spanish Concrete Tile Roofing Units: Molded or extruded concrete roof tile units with integral color, and free of surface imperfections. Include specially shaped, color-matched units for eaves, rakes, ridges, hips, valleys, and other conditions. Provide with fastening holes predrilled at factory.

Weight: Lightweight.

Appearance: Spanish style.

Colors, Blends, and Patterns: Redish.

Underlayment:

Field: 30# asphalt saturated felt. Provide multiple layers as recommended by roof tile manufacturer for application required.

Hips, Ridges, Valleys, Eaves, Terminations at Vertical Building Elements: Self-adhering modified bitumen sheeting.

Anchoring System: Wire ties anchored through substrate boards to structural metal decking.

Metal flashing: Prefinished steel sheet, 25 gage minimum.

B3010.03	Membrane Roofing	07500
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Provide roofing systems, either built-up bituminous or modified bituminous, including surfacing materials and coatings. Include composition and elastomeric flashing, walk boards, and other items integral with the roofing membrane.

Built-up Bituminous Roofing: 4 ply with aggregate surfacing 07510

Modified Bituminous Membrane Roofing: Aggregate surfacing on smooth cap sheet on base ply 07550

Flexible Flashing: Mineral surfaced 07650

B3010.04	Horizontal Waterproofing
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Provide impervious membranes, coatings, and other materials applied to horizontal decks subject to water penetration including exterior portion of 1st floor deck beneath Patio, Plaza and Arcade paving where located over Parking Garage. Include provisions for drainage and boards and coatings required for protection of waterproofing.

Hot Fluid Applied Waterproofing 07140

Hot-fluid applied membrane: Single-component; 100 percent solids; rubberized asphalt.

Nonwoven-Geotextile-Faced, Molded-Sheet Drainage panel: 1/4-inch nominal thickness, 30,000 lb/sf. ft. minimum compressive strength, flow Rate of 7.0 gpm per ft. minimum.

Separation and Protection Course: Fiberglass reinforced rubberized asphalt sheet 90 mil nominal thickness.



<i>NUMBER</i>	<i>TITLE</i>	<i>PROPOSED SECTION NUMBER</i>
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<b>B3010.05</b>	<b>Flashing and Sheet Metal</b>	<b>07600</b>
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Provide shop and field formed sheet metal flashing, accessories, and trim for roof and waterproofed deck construction such as gutters, downspouts, scuppers, gravel stops, pitch pans, and diverters. Include other related protective sheet metal items and accessories for roofing construction.

Sheet Metal Flashing and Trim	07620
Metal Gutters and Downspouts	07620
Splashblocks: Cast-in-place Concrete	03300
Joint Sealers	07900

<b>B3010.06</b>	<b>Roof Specialties and Accessories</b>	<b>07700</b>
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Provide roof specialties and accessories of standard manufactured components, both formed and extruded. Include accessories installed on and in roofing other than mechanical and structural items.

Manufactured Curbs

## **B3020 Roof Openings**

<b>B3020.01</b>	<b>Skylights</b>
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Provide metal-framed skylight assemblies with either of following glazing systems indicated. Accessories and joint sealants. Either of following systems:

Domed Unit Skylights with insulated acrylic glazing panels	08620
Ridge Metal-Framed Skylights: Prefinished aluminum framing with high performance organic coating (Kynar or Hylar resin)	08630
Translucent Fiberglass Panels: Kalwall or equal, white opaque, 2 inch nominal thickness panels	08840

<b>B3020.02</b>	<b>Other Roofing Openings</b>	<b>07720</b>
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Provide hatches for roof access openings. Include hardware, accessories, and joint sealants.

END OF ELEMENT B SHELL

NUMBER TITLE

**ELEMENT C  
INTERIORS****C10 INTERIOR CONSTRUCTION****C1010 Partitions****C1010.01 Interior Fixed Partitions**

Provide enclosures and partitions which are fixed, secured in place and non-structural. Include associated wall surfaces.

In Parking Garage at elevator and stairwell shaftwalls, chases, mechanical and other utility rooms: Unit Masonry Assemblies: Typically 8 inch thick reinforced and grouted lightweight block 04810

Partitions Walls Above 1st floor elevation: Framed Partition Non-Load Bearing Wall Framing: Typically 4 inch, 25 gage galvanized steel stud framing 09260

Above 1st floor elevation at stairwells, elevator shafts, chases: Framed Partition Non-Load Bearing Wall Framing: Typically 4 inch, 25 gage galvanized steel stud shaftwall framing 09265

**C1010.02 Interior Operable Partitions 10650**

Provide operable panels partition between Conference and Meeting Rooms. Include overhead supports.

Panel Partitions: Manually operated, track-supported, paired panel, top hung and floor supported, fabric facing 10650

Steel support structure: Metal Fabrication 05500.

**C1010.03 Interior Railings**

Provide guardrails at 2nd floor mezzanine. Include associated tracks (shoe type) and anchorages. Either of following:

Decorative Aluminum Railing Assemblies with decorative infill panels 05520

**C1010.04 Interior Windows**

Provide fixed windows used singly and in multiples. Include glazing and other accessories. Include lintels and sills.

Steel Borrowed lights and Sidelights: Hollow metal frames, 1/4 inch clear glass 08510

Wood Windows: Units facing Great Hall, wood jamb, head and mullion framing, 1/4 inch clear glass 08550

Sound Control Windows 08580

<b>NUMBER</b>	<b>TITLE</b>	<b>PROPOSED SECTION NUMBER</b>
<b>C1010.05</b>	<b>Interior Glazed Partitions and Storefront</b>	<b>08400</b>

Provide fixed interior storefronts at entrance to Reading Room. Include frames, glazing, sealants, and associated items.

Aluminum-Framed Entrance and Storefronts: 1/4 inch clear, tempered, leaded cut glass in dark bronze anodized finished aluminum framing. 08410

<b>C1010.06</b>	<b>Interior Partition Firestopping</b>	<b>07840</b>
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Provide material installed in cavities, around pipe penetrations, and in other openings in partitions to prevent spread of fire and smoke including fibrous fire safing, fire-resistant joint sealants, through penetration firestopping mortars, through penetration firestopping pillows, intumescent firestopping foams, silicone firestopping foams and thermal barriers for plastics.

## **C1020 Interior Doors**

<b>C1020.01</b>	<b>Interior Swinging Doors</b>	
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Provide interior personnel door assemblies other than at main entrances. Include glazing, frames, hardware, door louvers, lintels, accessories, and finishing.

Typical throughout: Steel Door Frames: 16 gage primed at interior, 14 gage galvanized at exterior and in Parking Garage 08110

Typical in Parking Garage: Steel Doors: 16 gage galvanized 08110

Typical in 1st and 2nd floor: Wood Doors: Solid-core doors with wood-veneer faces. 08210

<b>C1020.02</b>	<b>Interior Entrance Doors</b>	<b>08400</b>
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Provide interior personnel door assemblies at main entrances. Include frames when not part of storefront wall system, hardware, lintels, accessories, and finishing.

At entrance to 2nd floor Reading Room and entrance to rooms bordering Circulation Desk area:  
Aluminum-Framed Storefronts with 1/4 inch glass in dark bronze anodized finished frame, except provide leaded cut glass at Reading Rooms door. 08410

<b>C1020.03</b>	<b>Interior Fire Doors and Windows</b>	<b>08340</b>
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At fire rated wall assemblies:

Provide doors constructed to resist the passage of fire and smoke.

Provide wired or fire-resistive glazing at lites and window.

<b>C1020.04</b>	<b>Other Interior Doors</b>	
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Provide special function interior doors and door assemblies for a variety of special functions and applications involving a variety of operating methods. Frames, hardware, controls, operators, and drive mechanisms lintels accessories, and finishing.

In toilet rooms at all domestic water valves: Access Doors and Panels 08310

At perimeter in interior of Auditorium: Sound Control Doors 08340

## **C1030 Fittings**

## **Division 10**

<b>NUMBER</b>	<b>TITLE</b>	<b>PROPOSED SECTION NUMBER</b>
<b>C1030.01</b>	<b>Visual Display Boards</b>	<b>10100</b>

Provide the following:

Markerboards : Ceramic faced board with aluminum frame, map rail and chalk rail 10115  
 Tackboards: Cloth covered or prefinished cork laminated to fiberboard with aluminum frame. 10120

<b>C1030.02</b>	<b>Fabricated Compartments and Cubicles</b>	<b>10150</b>
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Provide enclosures, dividers for toilets and screens for urinals. Include hardware and accessories.

In Toilet Rooms: Plastic Toilet Compartments: High density polyethylene (HDPE) panels with stainless steel hardware. Toilet Enclosures: Ceiling mounted. Urinal Screens: Wall hung using continuous brackets. 10160

<b>C1030.03</b>	<b>Interior Louvers</b>	
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Provide interior louvers for ventilation ductwork terminating in vertical walls of atrium.

Wall Louvers: Stationary, aluminum with dark bronze anodized finish 10210  
 Column Cover Louver in Reading Room: Stationary, aluminum with dark bronze anodized finish 10210

<b>C1030.04</b>	<b>Wall and Corner Guards</b>	<b>10260</b>
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Provide the following protective devices:

Corner Guards: In book processing areas: Resilient plastic surface mounted units with aluminum retainers, 3 inch wings, floor to ceiling. 10260  
 Bumper Guards: In book processing areas. Resilient plastic surface mounted units with aluminum retainers, 4 inches wide, at chair rail height 10260  
 Impact-Resistant Wall Protection: In corridors in book processing areas: Resilient plastic adhesive applied sheet, 20 mils thickness, to 48 inches above floor. 10260

<b>C1030.05</b>	<b>Interior Identifying Devices</b>	<b>10400</b>
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Provide the following to establish identity and communication.

Directories: At each public entrance, each elevator stop, each stairwell door 10410  
 Interior Signage: Allow one sign for each door opening 10440

<i>NUMBER</i>	<i>TITLE</i>	<i>PROPOSED SECTION NUMBER</i>
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<b>C1030.06</b>	<b>Pedestrian Control Devices</b>	
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Provide proprietary posts, railings and rotary gate system with electronic detection and counting systems, used to control access of pedestrian traffic at main entrance.

Proprietary Posts and Railings	10450
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Detection and Counting Devices	10450
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<b>C1030.07</b>	<b>Lockers</b>	<b>10500</b>
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Provide storage facilities providing temporary security of contents. Include related hardware.

In Staff Lounge: Metal Lockers: Two tier units, 12 inches wide by 18 inches deep	10500
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<b>C1030.08</b>	<b>Postal Boxes</b>	<b>10550</b>
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Provide the following. Include letter slots, view windows, and other postal service facilities and devices.

Mail Boxes	10550
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Central Mail Delivery Boxes	10550
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<b>C1030.09</b>	<b>Storage Shelving</b>	<b>10670</b>
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Provide open, manufactured metal storage shelving for general storage.

<b>C1030.10</b>	<b>Telephone Specialties</b>	<b>10750</b>
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Provide manufactured telephone enclosures for installation of telephones. Include accessories.

<b>C1030.11</b>	<b>Toilet Accessories</b>	<b>10800</b>
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Provide manufactured items for use in conjunction with toilets, sinks and janitor's closet.

Toilet Room Accessories: Typically brushed stainless steel units including dispensers, trash receptacles, framed mirrors, grab bars, mop holder, insulation guards, baby changing station.

10810

## **C20 STAIRS**

### **C2010 Stair Construction**

Provide structural framing for interior stairs including treads, risers, and landings.

<b>NUMBER</b>	<b>TITLE</b>	<b>PROPOSED SECTION NUMBER</b>
<b>C2010.01</b>	<b>Metal Stair Construction</b>	<b>05500</b>

In Service Stairwells: Steel stringers; metal pan treads, risers and landing; concrete infill treads and landings. Tubular steel railings.

In Grand Reading Hall: Steel stringers; metal pan treads, risers and landing; concrete infill treads and landings. Ornamental aluminum railings with aluminum infill panels.

## **C2020 Stair Finishes**

### **C2020.01 Unit Masonry Stair Finishes 09630**

Provide stair tread and landing finish of pressed concrete unit masonry pavers and tile risers and stringers in Grand Hall.

Concrete Unit Pavers	09630
Paver Tile Risers	09340

(Alternate finishes under consideration include stone, cork or other resilient flooring material.)

### **C2020.02 Resilient Stair Finishes 09650**

Provide the following at Service Stairs:

Resilient Stair Treads and Risers	09650
Resilient Stair Nosings	09650
Resilient Stair Landings	09650
Resilient Stair Base	09650

### **C2020.03 Stair Railings and Balustrades**

Provide complete stair railing and balustrade assemblies including handrails. Includes railings that are integral to the stair and wall mounted to serve the stair.

At stairs from 2nd floor mezzanine to 1st floor: Ornamental aluminum railings with decorative infill panels	05520
Wood Handrails and Top Rails	06430
At Service stairs: Steel railings.	05510

### **C2020.04 Stair Soffits**

Provide materials to provide finish or protective coating to underside of interior stair and landing construction.

Gypsum Board	09250
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### **C2020.05 Stair Painting 09910**

Provide painting and staining of interior stair construction and soffits.

Paint: Semigloss water based acrylic	09910
Stains and Transparent Finishes for railings: Alkyd based	09930

NUMBER TITLE

**C30 INTERIOR FINISHES****C3010 Wall Finishes****C3010. Concrete Wall Finishes 03360**

Provide special or architectural finishes on exposed interior concrete walls in Great Hall.

Colored Concrete Finishes: Stained 03360

**C3010.01 Wall Paneling 06420**

Provide covering or cladding of interior walls with wood paneling. Include associated furring, fastening, and trim.

Architectural Wainscot Paneling 06420

**C3010.02 Plaster Wall Finishes 09200**

Provide plaster finish on gypsum lathing in Grand Hall. Include accessories, trim and acoustical sound barrier blankets.

Gypsum Lathing and Plaster 09210

See Gypsum Board Assemblies for metal stud framing.

**C3010.03 Gypsum Board Wall Finishes 09200**

Provide unfinished gypsum board, gypsum backing board for other finishes, accessories and trim, and joint taping and finishing. Include acoustical sound barrier blankets.

Gypsum Board Assemblies: Typically 5/8 inch Type X gypsum board on both sides of 4 inch 25 gage galvanized steel stud framing; 2 layers of gypsum board in toilet rooms, sound batt insulation in the partitions at: toilet rooms, study rooms, labs, offices, classrooms. Level 4 finish, except Level 5 on pilasters and bridge fascia in Great Hall. 09260

Gypsum Board Accessories 09270

**C3010.04 Tile Wall Finishes 09300**

Provide following manufactured surfacing units.

Ceramic Tiles: Glazed clay, traditional Mexican style tiles 09310

**C3010.05 Acoustical Wall Treatment 09840**

Provide acoustical tiles and panels, sound absorbing wall units, acoustical wall systems.

**C3010.06 Wall Carpet 09730**

Provide wall carpet materials and accessories.

**C3010.07 Interior Wall Painting 09910**

<b>NUMBER</b>	<b>TITLE</b>	<b>PROPOSED SECTION NUMBER</b>
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Provide interior painting with transparent and opaque finishes. Include primers, fillers and preparation of surfaces.

	Interior Paints	09910
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Typical at Walls: Low luster water based acrylic.

Typical at Ceilings: Flat water based acrylic.

Typical in Toilet Rooms: Semigloss water based epoxy.

Typical on ferrous metal surfaces and railings: Semigloss water based acrylic.

	Decorative Finishes: Multicolored coating or venetian plaster coating	09940
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<b>C3010.08</b>	<b>Wall Coverings</b>	<b>09720</b>
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Provide one or more of following wall coverings applied over solid substrates:

	Vinyl-Coated Fabric Wall Coverings	09720
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	Vinyl Wall Covering	09720
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	Cork Wall Covering	09720
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	Flexible Wood Sheets (alternate to wood paneling)	09740
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<b>C3010.09</b>	<b>Wall Trim and Decoration</b>	
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Provide following trim and decoration applied to finished wall surfaces:

	Standing and Running Wood Trim	06450
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	Decorative Wood Panels	06420
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	Gypsum Fabrications	09200
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	Plaster Fabrications	09230
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<b>C3020</b>	<b>Floor Finishes</b>	
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<b>C3020.01</b>	<b>Concrete Floor Finishes</b>	<b>03360</b>
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Provide penetrating concrete floor sealers and densifier at concrete surfaces not receiving other finishes. Use chemically reactive formulation not using silicone.

<b>C3020.02</b>	<b>Tile Floor Finishes</b>	<b>09300</b>
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Provide following manufactured surfacing units. Include coved wall base units.

	Ceramic, Porcelain or Quarry Tile Field	09310
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	Stone Tile Accents	09380
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<b>C3020.03</b>	<b>Wood Flooring</b>	<b>09640</b>
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Provide resilient wood flooring system at Auditorium stage. Include vented wall base.



<b>NUMBER</b>	<b>TITLE</b>	
<b>C3020.4</b>	<b>Unit Masonry Flooring</b>	<b>09630</b>
	Provide pressed concrete unit masonry pavers and wall base in Grand Hall.	
	Concrete Unit Pavers	09630
<b>C3020.05</b>	<b>Resilient Flooring</b>	<b>09650</b>
	Provide resilient tile flooring. Include integral and applied wall bases.	
<b>C3020.06</b>	<b>Carpet Flooring</b>	<b>09680</b>
	Provide one or more of the following: Including cushions accessories, and wall base.	
	Carpet Cushion	09680
	Sheet Carpet	09680
	Carpet Tile	09680
<b>C3020.07</b>	<b>Access Flooring</b>	<b>10270</b>
	Provide free-standing, accessible floor assembly of modular panels and elevated support systems forming an underfloor cavity for mechanical and electrical services distribution. Include ramp and railings.	
	Snap-on Stringer Access Flooring	10270
<b>C3020.08</b>	<b>Floor Treatment</b>	<b>09610</b>
	Provide static disseminating and spark resistant finishes.	
	Static Control Flooring: For carpet	09660
	Slip-Resistant Floor Treatment: For smooth surface flooring	09610
<b>C3020.09</b>	<b>Floor Painting</b>	<b>09910</b>
	Provide painting and staining of concrete and wood floors.	
	Interior Paints: High performance resinous coating	09910
	Stains and Transparent Finishes: Polyurethane coating	09930
<b>C3030</b>	<b>Ceiling Finishes</b>	
<b>C3030.01</b>	<b>Ceiling Paneling</b>	<b>06420</b>
	Provide covering or cladding of interior ceilings with the following. Include associated furring, fastening, and trim.	
	Architectural Wood Paneling	06420

<b>NUMBER</b>	<b>TITLE</b>	<b>PROPOSED SECTION NUMBER</b>
<b>C3030.02</b>	<b>Plaster Ceiling Finishes</b>	<b>09200</b>
	Provide plaster finish on gypsum lathing in Grand Hall. Include accessories, trim and acoustical sound barrier blankets.	
	Gypsum Lathing and Plaster	09210
	See Gypsum Board Ceiling Finishes for metal suspension framing.	
<b>C3030.03</b>	<b>Gypsum Board Ceiling Finishes</b>	<b>09200</b>
	Provide unfinished gypsum board, gypsum backing board for other finishes, accessories and trim, and joint taping and finishing. Include sound barrier blankets and ceiling suspension system.	
	Gypsum Board	09250
	Gypsum Board Assemblies	09260
	Gypsum Board Accessories	09270
<b>C3030.04</b>	<b>Acoustical Ceiling Treatment</b>	<b>09800</b>
	Provide acoustical tiles and panels, sound absorbing ceiling units, sound barrier boards and blankets, and spray applied acoustical insulation. Include suspended ceiling and direct applied acoustical finishes.	
	Acoustical Ceilings	09510
	Acoustical Finish	09500
	Acoustical Fiberglass Board Panels in Auditorium, suspended for exposed and spike attached for concealed	
<b>C3030.05</b>	<b>Interior Ceiling Painting</b>	<b>09900</b>
	Provide interior painting with opaque finishes. Include primers and preparation of surfaces.	
	Interior Paints: Typically flat sheen water based acrylic	09910
	Decorative Finishes: Multicolored coating or venetian plaster coating	09940
<b>C3030.06</b>	<b>Ceiling Trim and Decoration</b>	
	Provide following trim and decoration applied to finished ceiling surfaces:	
	Standing and Running Wood Trim	06450
	Decorative Wood Panels	
	Gypsum Fabrications	09200
	Plaster Fabrications	09230

**NUMBER TITLE****C3030.07 Other Ceiling Finishes**

Provide limited use of the following manufactured as finished ceiling surfaces. Acoustical provisions, if any, are of secondary consideration. Include ceiling suspension system. Include heavy duty, high performance, and other special ceiling finishes.

Wood Panel Ceilings: 2 foot square panels.

09570

Suspended Decorative Grids

09580

END OF ELEMENT C INTERIORS

NUMBER TITLE

PROPOSED SECTION NUMBER

**ELEMENT D SERVICES****D10 CONVEYING****Division 14****D1010 Elevators and Lifts****D1010.01 Elevators****14200**

Provide Passenger and freight elevators of all types, including cars, enclosures, controls, safety equipment, hoistway equipment, and elevator machinery. Associated metal fabrications.

Hydraulic Passenger Elevators: Two units near Gridlines K7, F5; 2500 lb capacity, 125 fpm speed.

14240

Hydraulic Service Elevators: One unit near Gridline F9; 3500 lb capacity, 125 fpm speed.

14240

**D20 PLUMBING****15400****D2010 Plumbing Fixtures****15410**

Provide Terminal devices on the domestic water plumbing system which have water supplied to them. Include rough-in piping, trim, fittings, and connection to vent piping.

**D2010.01 Water Closets****D2010.02 Urinals****D2010.03 Lavatories****D2010.04 Sinks****D2010.05 Basins****D2010.06 Drinking Fountains/Coolers****D2010.07 Other Plumbing Fixtures****D2020 Domestic Water Distribution****D2020.01 Water Supply Piping Systems****15140**

Provide piping system for distribution of domestic water inside a building. Include piping materials, basic mechanical materials and methods.

Pipes and Tubes

15105

Valves

15110

Piping Specialties

15120

Hangers and Supports

15060

Mechanical Sound, Vibration, and Seismic Control

15070

Mechanical Identification

15075

Hydrants

15140

Hose Bibbs

15140

**NUMBER      TITLE      PROPOSED SECTION NUMBER**

**D2020.02      Water Supply Equipment**

Provide equipment for domestic water distribution system. Include heat exchangers, and basic mechanical materials and methods.

Drinking Water Cooling Systems	15400
Plumbing Pumps	15440
Potable Water Storage Tanks	15450
Domestic Water Conditioning Equipment	15460
Domestic Water Filtrating Equipment	15470
Domestic Water Heaters	15480
Piping Specialties	15120
Mechanical Identification	15075
Mechanical Sound, Vibration, and Seismic Control	15070

**D2020.03      Water Supply Insulation      15080**

Provide insulation of water supply piping and equipment.

Piping Insulation	15080
Equipment Insulation	15080

**D2030      Sanitary Waste**

**D2030.01      Waste and Vent Piping      15400**

Provide piping system for transmission of sanitary waste and for venting of waste system. Include basic mechanical materials and methods.

Pipes and Tubes	15105
Hangers and Supports	15060
Mechanical Sound, Vibration, and Seismic Control	15070
Mechanical Identification	15075

**D2030.02      Waste Piping Specialties      15400**

Provide specialties for sanitary waste and vent system. Include basic mechanical materials and methods.

Piping Specialties	15120
Mechanical Identification	15075
Mechanical Sound, Vibration, and Seismic Control	15070
Floor Drains	15150

<b>NUMBER</b>	<b>TITLE</b>	<b>PROPOSED SECTION NUMBER</b>
<b>D2030.03</b>	<b>Waste Piping Equipment</b>	<b>15150</b>
	Provide equipment for sanitary waste and vent system. Include basic mechanical materials and methods.	
	Interceptors	15150
	Separators	15150
	Pumps	15440
	Piping Specialties	15120
	Mechanical Sound, Vibration, and Seismic Control	15070
	Mechanical Identification	15075
<b>D2030.04</b>	<b>Waste Piping Insulation</b>	<b>15080</b>
	Provide insulation of waste plumbing piping.	
	Piping Insulation	15080
	Equipment Insulation	15080
<b>D2040</b>	<b>Rain Water Drainage</b>	
<b>D2040.01</b>	<b>Rain Water Drainage Piping Systems</b>	<b>15400</b>
	Provide piping system for transmission of rain water. Include basic mechanical materials and methods.	
	Hangers and Supports	15060
	Pipes and Tubes	15105
	Mechanical Sound, Vibration, and Seismic Control	1 5070
	Mechanical Identification	15175
<b>D2040.02</b>	<b>Rain Water Drainage Specialties 15160</b>	
	Provide specialties for rain water drainage system. Include basic mechanical materials and methods.	
	Piping Specialties	15120
	Mechanical Sound, Vibration, and Seismic Control	15070
	Mechanical Identification	15075
	Roof Drains	15160
	Plaza Drains	
	Area Drains	
<b>D2040.03</b>	<b>Rain Water Drainage Insulation</b>	<b>5080</b>
	Provide piping insulation of rain water drainage piping.	
<b>D2090</b>	<b>Other Plumbing Systems</b>	
	Provide material and equipment for plumbing systems serving the following applications: Include basic mechanical materials and methods and associated items.	
<b>D2090.01</b>	<b>Fountain Equipment</b>	<b>15490</b>

NUMBER TITLE PROPOSED SECTION NUMBER

**D30 HEATING, VENTILATING, AND AIR CONDITIONING (HVAC)**

**D3010 Energy Supply**

**03010.01 Gas Supply Systems 15190**

Provide equipment and piping systems for storage and transfer of natural gas within the building and serving heatgenerating equipment. Include basic mechanical materials and methods.

Metering and Regulating Equipment  
Storage Equipment  
Transfer Equipment  
Distribution Piping

**D3010.02 Hot and Chilled Water Supply**

Provide piping systems for transmission of hot water, and chilled water within the building for use as the HVAC energy supply system. Include basic mechanical materials and methods.

Pipes and Tubes 15105  
Hangers and Supports 15060  
Pumps 15130  
Piping Specialties 15120  
Mechanical Sound, Vibration, and Seismic Control 15070  
Mechanical Identification 15075  
Piping Insulation 15080  
Equipment Insulation 15080

**D3020 Heat Generation 15500**

**D3020.01 Hot Water Boilers**

Provide equipment, piping, and appurtenances not associated with fuel supply and heat distribution systems. Include feedwater equipment and piping; ; safety relief valves and piping; blowdown piping, valves, and specialties; integral controls; supports and anchors; identification; insulation; and vibration and seismic controls. Include basic mechanical materials and methods.

Gas Fuel Fired Heating Boilers and Accessories 15510  
Breechings and Prefabricated Chimneys, and Stacks 15550  
Water Treatment Equipment 15180

NUMBER TITLE

**D3030 Refrigeration****D3030.01 Reciprocating Water Chillers 15620**

Provide chillers and safety devices; insulation; vibration and seismic controls; integral controls not a part of chilled water and condenser water distribution systems. Include basic mechanical materials and methods.

Chemical Water Treatment Equipment 15180

**D3040 HVAC Distribution****D3040.01 Air Distribution Systems**

Provide systems for distribution of air including supply systems, return systems, and general exhaust systems. Include basic mechanical materials and methods.

Air Handling Units 15720

Fans: Centrifugal Fans and Axial Fans 15830

Air Cleaning Devices 15860

Ducts 15810

Duct Accessories 15820

Air Terminal Units 15840

Air Outlets and Inlets 15850

**D3040.02 Hydronic Distribution Systems 15180**

Provide piping systems and equipment for distribution of heating hot water and cooling chilled water. Include piping systems, pumps, tanks, supports and anchors, vibration and seismic controls, identification, and piping and equipment insulation. Include basic mechanical materials and methods.

Hot Water Distribution Systems 15180

Chilled Water Distribution Systems 15180

Condenser Water Distribution Systems Pumps 15130

**D3050 Terminal and Packaged Units (None) 15730****D3060 HVAC Instrumentation and Controls****D3060.01 Energy Management and Conservation Systems 13800**

Provide items for operating and controlling heating, ventilating, and air conditioning systems and equipment for energy management and conservation. Include piping, tubing, wiring, control panels, thermostats, aquastats, timers, and recording and alarm devices.



<i>NUMBER</i>	<i>TITLE</i>	<i>PROPOSED SECTION NUMBER</i>
<b>D3060.02</b>	<b>HVAC Instrumentation and Controls</b>	<b>15940</b>

Provide components for operating and controlling heating, ventilating, and air conditioning systems and equipment. Include piping, tubing, wiring, control panels, thermostats, aquastats, timers, instrumentation, and recording and alarm devices.

Electric and Electronic Controls or Pneumatic and Electric Controls  
Self-Powered Controls  
Building Systems Controls

<b>D3060.03</b>	<b>HVAC Sequence of Operation</b>	<b>15940</b>
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Mechanical Engineer will provide description of how HVAC equipment is intended to operate.

## **D3070 Testing, Adjusting, and Balancing**

<b>D3070.01</b>	<b>Piping Systems Testing, Adjusting and Balancing</b>	<b>15950</b>
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Provide testing, adjusting and balancing mechanical piping systems.

<b>D3070.02</b>	<b>Air Systems Testing, Adjusting and Balancing</b>	<b>15950</b>
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Provide testing, adjusting and balancing mechanical air systems.

## **D40 FIRE PROTECTION**

### **D4010 Sprinklers**

<b>D4010.01</b>	<b>Wet-Pipe Fire Sprinkler Systems</b>	<b>13930</b>
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Provide piping, fittings, valves, hangers, supports, other specialties, and sprinklers for fire protection systems. Include limited area sprinkler systems, fire pumps, accessories, and controls.

	Fire Protection Basic Materials and Methods	13910
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### **D4020 Standpipes**

<b>D4020.01</b>	<b>Fire Protection Standpipe System</b>	<b>13975</b>
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Provide piping, fittings, and specialties; hoses, valves, and cabinets; fire pumps, accessories, and controls.

NUMBER TITLE

**D4030 Fire Protection Specialties****10520****D4030.01 Fire Extinguisher, Cabinets and Accessories****10520**

Provide fire fighting devices and storage cabinets.

**Fire Extinguisher Cabinets**

Semi-recessed enameled steel cabinets at 1st floor level and above

Surface mounted enameled steel cabinets in Parking Garage

Mounting brackets in mechanical and utility room spaces

Portable fire extinguishers.

Cabinet Mounted: 4-A:60-B:C, 10-lb.

Bracket Mounted: 20-A:120-B:C, 20-lb.

**D50 ELECTRICAL****D5010 Electrical Service and Distribution****D5010.01 Main Electrical Transformers**

Provide overhead transformers used for primary electrical service. Include pads, trenching, and backfill.

Transformers

16270

**D5010.02 Secondary Electrical Transformers**

Provide transformers fed from protection equipment on the building side of primary transformer. Include conduit, conduit support, and wire.

Low-Voltage Transformers

16460

**D5010.03 Main Electrical Switchboards**

Provide protection equipment and metering devices for main distribution. Include main distribution panel, breakers, fuses, and meters.

Low-Voltage Distribution

16400

Electrical Utility Services

16210

Switchboards, Panelboards and Control Centers

16440

Enclosed Switches and Circuit Breakers

16410

Grounding and Bonding

16060

**D5010.04 Interior Electrical Distribution Transformers**

Provide interior step-down or buck boost transformers. Include basic electrical materials and methods for distribution system.

Low-Voltage Transformers

16460

<b>NUMBER</b>	<b>TITLE</b>	<b>PROPOSED SECTION NUMBER</b>
<b>D5010.05</b>	<b>Electrical Branch Circuit Panelboards</b>	
	Provide branch circuit panelboards, breakers, and fuses. Include basic electrical materials and methods for distribution system.	
	Switchboards, Panelboards and Control Centers	16440
	Enclosed Switches and Circuit Breakers	16410
<b>D5010.06</b>	<b>Enclosed Electrical Circuit Breakers</b>	
	Provide overcurrent protection devices enclosed in its own housing. Include basic electrical materials and methods for distribution system.	
	Enclosed Switches and Circuit Breakers	16410
<b>D5010.07</b>	<b>Motor Control Centers</b>	
	Provide motor control center cabinets containing motor starters and operation devices. Include cabinets, motor starters, contacts, switches, and other accessories. Include basic electrical materials and methods for distribution system.	
	Switchboards, Panelboards, and Control Centers	16440
<b>D5020</b>	<b>Lighting and Branch Wiring</b>	
<b>D5020.01</b>	<b>Electrical Branch Wiring</b>	
	Provide electrical distribution system beyond branch circuit panelboards.	
	Raceway and Boxes	16130
	Conductors and Cables	16120
	Wiring Devices	16140
	Wiring Connections	16150
	Hangers and Supports	16070
	Electrical Identification	16075
<b>D5020.02</b>	<b>Interior Lighting</b>	16500
	Provide equipment and installation related to interior and special lighting applications.	
	Lighting Accessories	16580
	Interior Luminaires	16510
	Emergency Lighting	16530
	Special Purpose Lighting	16550
	Dimming Control	16570
	Theatrical Lighting	16550
	Hangers and Supports	16070

**NUMBER TITLE PROPOSED SECTION NUMBER**

**D5020.03 Exterior Building Lighting**

Provide exterior soffit lighting and other luminaires mounted on or in the building exterior enclosure.

Exterior Luminaires	16520
Lighting Accessories	16580
Emergency Lighting	16530
Hangers and Supports	16070

**D5030 Communication and Security**

**D5030.01 Detection and Alarm Fire Alarm 13850**

Provide equipment for detecting hazardous conditions in a building and communicating an alarm signal. Include alarm devices, detection devices, safety switches, and associated items. Include basic electrical materials and methods.

Smoke Alarm

**D5030.02 Security Access and Surveillance 13700**

Provide equipment for detecting and controlling access by persons to a building or within a building. Include basic electrical materials and methods.

Intrusion Detection

Security Access

Video Surveillance

**D5030.03 Voice and Data Systems 16700**

Provide equipment for voice and data communication systems. Central switchboards, telephone sets, backboards, cabinets, amplifiers, speakers, monitoring devices, and associated items. Include basic electrical materials and methods.

Telephone Systems

Paging Systems

Call Systems

Data Systems

Local Area Network Systems

Door Answering Systems

Intercommunication Systems

**D5030.04 Public Address and Music Systems 16820**

Provide equipment for public address and music systems. Include backboards, cabinets, amplifiers, speakers, monitoring devices, and associated items. Include basic electrical materials and methods.

**NUMBER TITLE**

**PROPOSED SECTION NUMBER**

**D5030.05 Television Systems**

**16850**

Provide equipment for television antenna and television systems. Include grounding, amplifiers, receivers, video equipment, and associated items. Basic electrical materials and methods.

Video Telecommunication Systems

Broadcast Video Systems

## **D5090 Other Electrical Systems**

Provide equipment including installation for other than normal electrical systems. Include basic electrical materials and methods.

**D5090.01 Battery Power Systems**

**16230**

END OF ELEMENT D SERVICES

NUMBER TITLE

PROPOSED SECTION NUMBER

## ELEMENT E EQUIPMENT AND FURNISHINGS

### E10 EQUIPMENT

### Division 11

#### E1010 Commercial Equipment

##### E1010.01 Checkroom Equipment

11090

Provide equipment used where wearing apparel is stored on a temporary basis.

##### E1010.02 Mercantile Equipment (By Owner)

Includes built-in and free-standing equipment used in coffee bar.

Cash Registers and Checking Equipment  
Display Cases  
Food Preparation Equipment

##### E1010.03 Vending Equipment (By Owner)

Includes coin-operated equipment for dispensing various foods, drinks, money and other items.

Money Changing Machines at copy machines  
Vending Machines

##### E1010.04 Office Equipment (By Owner)

Includes computers, printers, copiers and other equipment used in offices.

#### E1020 Institutional Equipment

##### E1020.01 Library Equipment

11050

Provide built-in equipment related to libraries

Book Theft Protection Equipment 11050  
Library Stack Systems 11050  
Book Depositories 11050  
Study Carrels 12560  
Automated Self-Checkout Stand

##### E1020.02 Theater and Stage Equipment 11060

Provide equipment designed for support of theatrical, instrumental and voice programs.

Stage Curtains and Motorized Track 11060

NUMBER	TITLE	PROPOSED SECTION NUMBER
E1020.03	Audiovisual Equipment	11130

Provide the following:

Motorized Projection Screens: Overhead supported. 11130  
Assisted Listening System in Auditorium: Built-in infrared signal type with portable reading devices

(By Owner) Includes movie, slide, overhead, and opaque projectors, video and audio equipment; portable, and rear Projection screens; players and recorders.

## **E1090 Other Equipment**

### **E1090.01 Maintenance Equipment (By Owner)**

Includes free-standing equipment for building maintenance.

Floor and Wall Cleaning Equipment  
Housekeeping Carts

### **E1090.02 Residential Type Equipment 11450**

Provide built-in and free-standing appliances and other components.

Residential type appliances including refrigerators, dishwashers and microwave ovens for use in staff lounge areas 11450

## **E20 FURNISHINGS**

## **Division 12**

### **E2010 Fixed Furnishings**

#### **E2010.01 Fixed Artwork 12100**

Provide Interior and exterior fixed art objects.

#### **E2010.02 Fixed Casework 06410, 12300**

Provide custom and manufactured stock design steel, wood, and laminate faced cabinets and other casework units. Include countertops.

Kitchen Casework 06410, 12350  
Library Casework 06410, 12350  
Architectural Casework 06410

#### **E2010.03 Window Treatments 12490**

Provide interior window coverings and associated hardware and controls.

Blinds 12490  
Shades: Include blackout type 12490

<i>NUMBER</i>	<i>TITLE</i>	<i>PROPOSED SECTION NUMBER</i>
<b>E2010.04</b>	<b>Fixed Floor Grilles and Mats</b>	<b>12480</b>

Provide fixed, recessed floor mats at building entrances.

<b>E2010.05</b>	<b>Fixed Multiple Seating</b>	<b>12600</b>
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Provide fixed audience seating for Auditorium.

## **E2020 Movable Furnishings**

**E2020.01 Furniture and Accessories (By Owner)**

Includes items of movable furniture and furnishing accessories. Furniture for a variety of uses including classroom, conference, library, lounge, office and cafe.

**E2020.02 Moveable Multiple Seating (By Owner)**

Includes portable seating for multiuse areas. Includes fabric covered cushions in Program Area,

END OF ELEMENT E EQUIPMENT AND FURNISHINGS



## ELEMENT F SPECIAL CONSTRUCTION AND DEMOLITION

### F10 SPECIAL CONSTRUCTION

#### F1010 Special Structures (None)

#### F1020 Integrated Construction (None)

#### F1030 Special Construction Systems

##### F1030.01 Special Security Systems 13700

Provide equipment and systems for low level security, including monitoring systems.

#### F1040 Special Facilities (None)

#### F1050 Special Controls and Instrumentation

##### F1050.01 Building Automation Systems 13800

Provide engineered systems which automatically monitor and control equipment and devices specified primarily in Divisions 11, 13, 14, 15 and 16 of the MasterFormat.

Energy Monitoring and Control 13800

Environmental Control 13800

Communications 16700

Security Access and Surveillance 13700

Detection and Alarm 13850

Door Control 13800

### F20 SELECTIVE BUILDING DEMOLITION (None)

END OF ELEMENT F SPECIAL CONSTRUCTION AND DEMOLITION

## ELEMENT G BUILDING SITEWORK

### **G10 SITE PREPARATION 02200**

#### **G1010 Site Clearing 02230**

##### **G1010.01 Clearing and Grubbing 02230**

Remove vegetation including roots.

##### **G1010.02 Shrub and Tree Removal and Trimming 02230**

Remove trees and shrubs. Include root removal.

##### **G1010.03 Stripping and Stockpiling of Soil 02230**

Remove of soil for reuse.

#### **G1020 Site Demolition and Relocations**

##### **G1020.01 Building Demolition 02220**

Demolish existing structures.

##### **G1020.02 Site Elements Demolition 02220**

Remove above and below grade site improvements.

##### **G1020.03 Utility Relocation**

Relocation utility systems.

#### **G1030 Site Earthwork 02300**

Excavation General: Partially remove and re-compact soils under pavements to reduce potential for excessive total and differential settlement (per referenced geotechnical report).

##### **G1030.01 Grading**

Move earth to establish new contours and elevations.

Rough Grading

02310

Finish Grading

02310

##### **G1030.02 Excavating, Backfilling, and Compacting**

Remove earth and backfill or fill to establish design elevations.

Borrow

02315

Embankment

02330

NUMBER TITLE

**G1040 Hazardous Waste Remediation (None)****G20 SITE IMPROVEMENTS****G2010 Roadways (None)****G2020 Parking Lots****G2020.01 Parking Lot Base Courses 02710**

Prepare and compact soil and granular layers prior to installation of parking lot pavement.

Granular Base Courses

Subsoil Base Courses

**G2020.02 Flexible Parking Lot Pavement**

Provide finished parking lot pavement of asphaltic materials.

Flexible Pavement

02740

Pavement Markings

02760

**G2020.03 Rigid Parking Lot**

Provide finished parking lot pavement with high bending resistance.

Portland Cement Concrete Pavement

02750

**G2020.04 Parking Lot Curbs and Gutters 02770**

Construct at perimeter of parking lot pavement to separate pavement from adjacent surfaces, provide vehicular restraint, and facilitate drainage.

Portland Cement Concrete Curbs and Gutters

**G2020.05 Parking Lot Appurtenances**

Provide accessories for parking lot construction.

Parking Bumpers: Precast concrete with dowels

02840

Parking Lot Signs: Metal panel signs on perforated channel poles

02890

Pavement Markings: Paint

02760

NUMBER TITLE

**G2030 Pedestrian Paving****G2030.01 Pedestrian Pavement Base Courses 02710**

Prepare and compact soil and granular layers before installation of pedestrian pavement.

Granular Base Courses

Subsoil Base Courses

**G2030.02 Pedestrian Unit Pavers 02780**

Provide blocks or tiles used for pedestrian pavement. Set sand or mortar.

Concrete Pavers

Stone Pavers

**G2030.03 Rigid Pedestrian Pavement**

Provide finished pedestrian pavement with high bending resistance.

Portland Cement Concrete Pavement

02750

Pavement Markings

02760

**G2030.04 Exterior Steps and Ramps**

Provide steps and ramps in exterior locations including applied finishes such as coatings and tile.

Exterior ramp east side of Auditorium: Provide slabs for ramp construction. Include weather protections and railings.

Cast-in-place Concrete

03300

Metal Handrails and Railings

05520

At Gridline B1, G1 and at East end of Plaza: Provide exterior exitway stairs above grade. Include protections and railings.

Cast-in-place Concrete

03300

Cast-in-Place Concrete Steps

03300

Metal Handrails and Railings

05520

**G2040 Site Development 02800****G2040.05 Fountains 02815**

Provide exterior fountains at Plaza.

<b>NUMBER</b>	<b>TITLE</b>	<b>PROPOSED SECTION NUMBER</b>
<b>G2040.06</b>	<b>Site and Street Furnishings</b>	
	Provide manufactured site furniture and fixtures.	
	Seating	02870
	Tables	02870
	Trash and Litter Receptacles	02870
	Bicycle Racks	02870
<b>G2040.07</b>	<b>Exterior Signs</b>	<b>10430</b>
	Provide exterior signs with the exception of roadway and parking lot signage.	
	Dimensional Letter Signs	
<b>G2040.08</b>	<b>Flagpoles</b>	<b>10350</b>
	Provide ground set metal flagpoles including concrete bases and accessories	
<b>G2040.09</b>	<b>Retaining Walls</b>	<b>02830</b>
	At Planters at east side of Plaza and at West end of Exterior Parking: Cast-in-Place Concrete	03300
<b>G2050</b>	<b>Landscaping</b>	
<b>G2050.01</b>	<b>Irrigation Systems</b>	<b>02810</b>
	Provide excavation and backfill, piping, equipment, and accessories.	
<b>G2050.02</b>	<b>Soil Preparation</b>	<b>02910</b>
	Prepare soil for planting including soil amendments and topsoil.	
<b>G2050.03</b>	<b>Lawns and Grasses</b>	<b>02920</b>
	Provide sodded lawns.	
<b>G2050.04</b>	<b>Trees, Plants and Ground Covers</b>	<b>02930</b>
	Provide ground covers, plants and bulbs, shrubs, and trees.	
<b>G2050.05</b>	<b>Plant Maintenance</b>	<b>02935</b>
	Provide Maintenance activities during the construction period for new exterior plants.	
	Fertilizing	
	Mowing	
	Pruning	
	Watering	

**NUMBER TITLE**  
**G2050.06 Planting Accessories**

**02945**

Landscape Edging  
 Planters  
 Tree Grates

## **G30 SITE CIVIL/MECHANICAL UTILITIES**

### **G3010 Water Supply**

**G3010.01 Site Domestic Water Distribution 02510**

Provide systems for transmission and distribution of domestic water outside the building. Include utility piping materials, utility structures, valves, hydrants, excavation, bedding, backfill, and compaction. Include testing and disinfection.

**G3010.02 Site Fire Protection Water Distribution 02510**

Provide systems for transmission and distribution of fire protection water outside the building. Include utility piping materials, utility structures, valves, hydrants, excavation, bedding, backfill, and compaction. Include testing and flushing.

### **G3020 Sanitary Sewer**

**G3020.01 Sanitary Sewage Collection 02530**

Provide systems for transmission of sewage outside the building. Include utility piping materials, utility structures, cleanouts, manholes, excavation, bedding, backfill, and compaction. Include testing.

### **G3030 Storm Sewer**

**G3030.01 Storm Water Collection 02630**

Provide systems for collecting and transmitting water from subdrainage system and building rain water system. Include utility piping materials, utility structures, cleanouts, manholes, catch basins, culverts, curb inlets, french drains, trench drains, excavation, bedding, backfill, and compaction. Include testing.

**G3030.02 Storm Water Equipment**

Provide Equipment for site Storm Sewerage system in Parking Garage. Lift stations.

### **G3040 Heating Distribution (None)**

### **G3050 Cooling Distribution (None)**

**G3060 Fuel Distribution 02550**

**NUMBER TITLE**  
**G3060.01 Gas Distribution**

Provide systems for transmission and distribution of fuel gases. Include piping materials, valves, excavation, bedding, backfill, and compaction. Include testing.

Natural Gas Distribution

02550

## **G40 SITE ELECTRICAL UTILITIES**

**G4010 Electrical Distribution 16300**

**G4010.01 Electrical Substations**

Provide equipment and related facilities for site transformation from site service voltage to site distribution voltage, including unit substations, transformers, circuit breakers, interrupter switches, cutouts and fuses, associated switchgear and accessories, concrete foundations, metal framing, fence enclosures, line structures, surface pavement, insulators, lightning arrestors, and grounding systems.

Unit Substations

16360

Transformers

16270

**G4010.02 Electrical Power Distribution Lines 16310**

Provide Underground electric power site distribution lines. Wire, conduits, ductbanks, manholes, poles, excavation, backfilling, and compaction.

**G4010.03 Electrical Power Distribution Equipment**

Provide Equipment for site distribution of electric power including transformers, switchboards, circuit breakers, reclosers, interrupter switches, fuses, converters, and grounding systems.

## **G4020 Site Lighting**

**G4020.01 Area Lighting**

Provide exterior area lighting systems for parking lots, pedestrian walkways and Plaza. Include underground electric feeders and branch circuits. Include transformers, wire, conduits, ductbanks, manholes, poles, luminaires, controls, grounding system, excavation, backfilling, and compaction.

Exterior Luminaires: Site bollards with integral luminaires, row located near east property line:

hessamerica, A JJI Lighting Group Company; AC Accents, Ponte Model PE-1000

16520

Lighting Poles and Standards

02580

<i>NUMBER</i>	<i>TITLE</i>	<i>PROPOSED SECTION NUMBER</i>
<b>G4020.02</b>	<b>Feature Lighting</b>	<b>16520</b>

Provide exterior lighting for site features such as sculptures, fountain, stairs, and ramps. Include transformers, wire, conduits, ductbanks, manholes, poles, luminaires, controls, grounding system, excavation, backfilling, and compaction. Include underwater lighting a fountain.

<b>G4020.03</b>	<b>Building Illumination</b>	<b>16520</b>
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Provide exterior lighting to illuminate the building. Include transformers, wire, conduits, ductbanks, manholes, luminaires, controls, grounding system, excavation, backfilling, and compaction.

<b>G4020.04</b>	<b>Landscape Lighting</b>	<b>16520</b>
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Provide exterior lighting to illuminate feature planting areas. Include transformers, wire, conduits, ductbanks, manholes, luminaires, controls, grounding system, excavation, backfilling, and compaction.

## **G4090 Other Site Electrical Utilities**

<b>G4090.01</b>	<b>Cathodic Protection</b>	<b>13110</b>
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Provide induced current systems to protect piping from electrolytic corrosion.

END OF ELEMENT G BUILDING SITEWORK



## ELEMENT Z GENERAL

### Z10 GENERAL REQUIREMENTS

#### Z1010 Administration

Construction administration requirements include home office and field office administration. By General Contractor unless indicated otherwise.

##### Z1010.01 Project Management 01310

Provide administration of construction contracts.

Payment Procedures 01200

##### Z1010.02 Project Coordination 01310

Provide coordination and scheduling of various parts of the work among the subcontractors.

Project Meetings 01310

Project Schedules 01320

##### Z1010.03 Design Submittals 01330

Architect of Record has provided general procedures and requirements for submittals during the project design process. See Schematic Design Drawing G0.02 for the following:

Code Analysis

Design Data

Preliminary Design Documents

The following to be provided by Architect pending procurement of project financing and execution of Owner/Architect Agreement.

Design Development Documents

Construction Documents

##### Z1010.04 Modification Submittals 00900

Include submittals affecting the price or time of the contract. Use the following forms:

ASI: Architect's Supplemental Instruction, Architect's or City's standard form 00930

PR: Proposal Request, Architect's or City's standard form 00930

CCA: Construction Change Authorization, Architect's or City's standard form 00930

CO: Change Order, Contractor's or City's standard form 00930

Requests for Interpretation 00930

<i>NUMBER</i>	<i>TITLE</i>	<i>PROPOSED SECTION NUMBER</i>
<b>Z1010.05</b>	<b>Construction Submittals</b>	<b>01330</b>

Provide submittals required during construction.

Certificates	01330
Shop Drawings	01330
Samples	01330
Product Data	01330
Manufacturers Installation Instructions	01330
Informational Submittals	

## **Z1020 Quality Requirements**

<b>Z1020.01</b>	<b>Manufacturer's Field Services</b>	<b>01430</b>
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Provide field observations, supervision, tests, and reports provided by manufacturers representatives during installation, start-up, commissioning, demonstration, and training.

Manufacturers Field Observation	01430
Manufacturers Field Supervision	01430
Manufacturer's Field Demonstration and Training	01430

<b>Z1020.02</b>	<b>Quality Assurance and Control</b>	<b>01400</b>
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Include costs for procedures to measure and report the quality and performance of construction.  
Include qualifications for fabricators, installers, manufacturers testing agencies and others involved in the construction. Include field and source quality control.

Regulatory Requirements	01410
Quality Assurance	01430
Quality Control	01450
Field Samples and Mockups	01450

<b>Z1020.03</b>	<b>Field Engineering</b>	<b>01720</b>
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Provide measurement and layout.

Field Survey	01720
Control Points and Benchmarks	01720

<b>Z1020.04</b>	<b>Testing and Inspection</b>	<b>01450</b>
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Provide field and laboratory testing, inspection, and reporting services to monitor quality of construction.

Owner will provide Code required inspections.

NUMBER TITLE

**Z1030 Temporary Facilities****Z1030.01 Temporary Utilities 01510**

Provide following utilities for use on site during construction.

Temporary Electricity 01510

Temporary Fire Protection 01510

Temporary Fuel Supply 01510

Temporary Heating, Ventilating, and Air Conditioning 01510

Temporary Lighting 01510

Temporary Telephone 01510

Temporary Water 01510

**Z1030.02 Construction Facilities 01520**

Provide field office and storage shed facilities for use on site during construction. 01520

**Z1030.03 Construction Aids 01540**

Provide tools and equipment during construction.

Construction Cranes and Hoists 01540

Scaffolding and Platforms 01540

**Z1030.04 Temporary Site Access and Parking 01530**

Provide limited temporary parking area facilities to accommodate construction personnel, contractor's operations and owner's operations access to the site during construction. 01550

**Z1030.05 Temporary Barriers and Enclosures 01560**

Provide protection of public, occupants and existing facilities during construction.

Construction Fence 01560

Protective Walkways 01560

Tree and Plant Protection 01560

**Z1030.06 Temporary Controls 01570**

Provide site or environment controls required to allow construction to proceed.

Erosion and Sediment Control 01570

**Z1030.07 Project Identification 01580**

Provide signage identifying the project and the project team.

Project Signs 01580

NUMBER TITLE

**Z1040\_ Project Closeout****Z1040.01 Cleaning 01740**

Maintain the site in a neat condition during construction. Provide the following:

Progress Cleaning 01740

Final Cleaning 01740

Site Maintenance 01740

**Z1040.02 Startup and Adjusting 01750**

Provide checkout and startup procedures, and initial adjusting to ensure safe operation in preparation for acceptance testing and commissioning.

**Z1040.03 Completion Inspections 01770**

Provide final completion inspections.

Substantial Completion Inspection 01770

Final Completion Inspection 01770

**Z1040.04 Closeout Submittals 01780**

Provide closeout submittals, revised project documents, and delivery and distribution of spare parts and maintenance materials.

Final Site Survey 01780

Maintenance Contracts 01780

Maintenance Data 01780

Maintenance Materials 01780

Operation Data 01780

Preventive Maintenance Instructions 01780

Warranties 01780

Project Record Documents 01780

Spare Parts 01780

**Z1040.05 Commissioning 01810**

Demonstrate that systems of facilities comply with contract performance requirements.

System Performance Acceptance Testing 01810

Testing, Adjusting, and Balancing 01810

**Z1040.06 Demonstration and Training 01820**

Include demonstration operation of the products and systems of the facility and train the owners operating and maintenance personnel.

**NUMBER TITLE**  
**Z1040.07 Operation and Maintenance**

**PROPOSED SECTION NUMBER**  
**01830**

Comply with requirements and procedures for operating the facility after commissioning. Include contract maintenance provisions that extend beyond the date of substantial completion for but not limited to the following:

Elevator Maintenance, 1 year.

## **Z1050 Permits, Insurance, and Bonds**

**Z1050.01 Permits and Approvals 00890**

Include cost of permits and approvals required for design and construction.

Building Permits by Contractor 00890

Environmental Permits by Contractor 00890

**Z1050.02 Insurance 00800**

Include insurance required for construction.

Contractor's Insurance 00800

**Z1050.03 Bonds 00600**

Include bonds required of the contractor. Include consent of surety for contractors release.

Lien Bonds 00610

Performance Bonds 00610

Material and Payment Bonds 00610

Maintenance Bonds 00610

Warranty Bonds 00610

**END OF ELEMENT Z GENERAL**